SAMSUNG

COLOR TELEVISION RECEIVER

Chassis : SCT57C
Model: CK765DWT2X/BWT

SERVICE Manual

COLOR TELEVISION RECEIVER

CONTENTS

1. Precautions
2. Specifications and IC Data
3. Disassembly and Reassembly
4. Alignment and Adjustments
5. Troubleshooting
6. Exploded View and Parts List
7. Electric Parts List
8. Block Diagram
9. PCB Layout
10. Wiring Diagram
11. Schematic Diagrams

ELECTRONICS

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1. Precautions

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1. Be sure that all of the built-in protective devices are replaced. Restore any missing protective shields.

2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including: nonmetallic control knobs and compartment covers.

3. Make sure that there are no cabinet openings through which people—particularly children—might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.

   If the measured resistance is less than 1.0 megohm or greater than 5.2 megohms, an abnormality exists that must be corrected before the unit is returned to the customer.

4. Leakage Current Hot Check (Figure 1-1):
   Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANIS C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

5. With the unit completely reassembled, plug the AC line cord directly into the power outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: antennas, handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

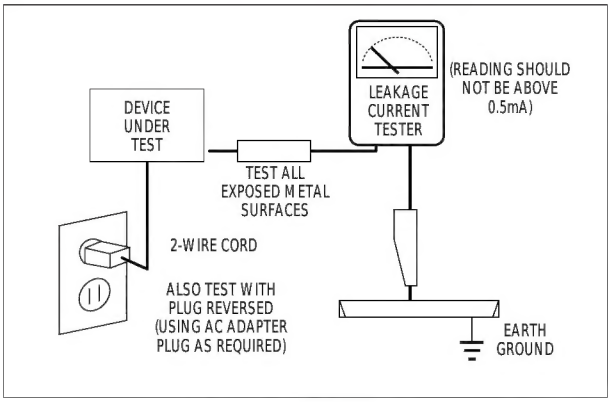

DEVICE UNDER TEST
LEAKAGE CURRENT TESTER
(READING SHOULD NOT BE ABOVE 0.5mA)
TEST ALL EXPOSED METAL SURFACES
2-WIRE CORD
ALSO TEST WITH PLUG REVERSED (USING AC ADAPTER PLUG AS REQUIRED)
EARTH GROUND

Fig. 1-1 AC Leakage Test

6. Antenna Cold Check:
   With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. Connect one lead of the ohmmeter to an AC prong. Connect the other lead to the coaxial connector.

7. X-ray Limits:
   The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.

8. High Voltage Limits:
   High voltage must be measured each time servicing is done on the B+, horizontal deflection or high voltage circuits. Correct operation of the X-ray protection circuits must be reconfirmed whenever they are serviced. (X-ray protection circuits also may be called "horizontal disable" or "hold-down".)

   Heed the high voltage limits. These include the X–ray Protection Specifications Label, and the Product Safety and X-ray Warning Note on the service data schematic.

1-1 Safety Precautions (Continued)

9. High voltage is maintained within specified limits by close-tolerance, safety-related components and adjustments. If the high voltage exceeds the specified limits, check each of the special components.

10. Design Alteration Warning:
Never alter or add to the mechanical or electrical design of this unit. Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard. Also, any design changes or additions will void the manufacturer's warranty.

11. Hot Chassis Warning:
Some TV receiver chassis are electrically connected directly to one conductor of the AC power cord. If an isolation transformer is not used, these units may be safely serviced only if the AC power plug is inserted so that the chassis is connected to the ground side of the AC source.

    To confirm that the AC power plug is inserted correctly, do the following: Using an AC voltmeter, measure the voltage between the chassis and a known earth ground. If the reading is greater than 1.0V, remove the AC power plug, reverse its polarity and reinsert. Re-measure the voltage between the chassis and ground.

12. Some TV chassis are designed to operate with 85 volts AC between chassis and ground, regardless of the AC plug polarity. These units can be safely serviced only if an isolation transformer inserted between the receiver and the power source.

13. Some TV chassis have a secondary ground system in addition to the main chassis ground. This secondary ground system is not isolated from the AC power line. The two ground systems are electrically separated by insulating material that must not be defeated or altered.

14. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards.

15. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that leads and components do not touch thermally hot parts.

16. Picture Tube Implosion Warning:
The picture tube in this receiver employs "integral implosion" protection. To ensure continued implosion protection, make sure that the replacement picture tube is the same as the original.

17. Do not remove, install or handle the picture tube without first putting on shatterproof goggles equipped with side shields. Never handle the picture tube by its neck. Some "in-line" picture tubes are equipped with a permanently attached deflection yoke; do not try to remove such "permanently attached" yokes from the picture tube.

18. Product Safety Notice:
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.

    Components that are critical for safety are indicated in the circuit diagram by shading, (⚠) or (⚠).
    Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications.
    A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

1-2 Servicing Precautions

Warning1: First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.
Warning2: An electrolytic capacitor installed with the wrong polarity might explode.

1. Servicing precautions are printed on the cabinet. Follow them.

2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.

3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.

4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.

5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).

6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.

   The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.

7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.

8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs); examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.

2. Immediately before handling any semicon ductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power—this is an electric shock precaution.)

3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.

4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.

5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.

6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static"; these can accumulate sufficient electrical charge to damage ESDs.

7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.

8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.

9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

2. Specifications and IC Data

2-1 Specifications

Television System:

MODEL	SYSTEM
CI	PAL-I (UHF)
CII	PAL-I (VHF/UHF)
CX	PAL-B/G, SECAM-B/G
CK	PAL-B/G, D/K, SECAM-B/G, D/K
CS	PAL-B/G, D/K, PAL-I, SECAM-B/G, D/K, NT4.43, NT3.58

Channels:

System / Band	PAL/SECAM-B/G,I	PAL, SECAM-D/K	SECAM-K1, PAL-D	NTSC-M
VHF	2 - 12	1 - 13	2 - 9	2 - 13
UHF	21 - 69	21 - 69	13 - 57	14-69

Intermediate Frequencies (MHz):

SYSTEM / IF Carrier Frequency	PAL/ SECAM-B/G	PAL/SECAM-D/K, SECAM-K1	PAL-I	NTSC-M
Picture IF Carrier	38.90	38.90	38.90	38.90
Sound IF Carrier	33.40	32.40	32.90	34.40
Color Sub Carrier	34.47	34.47	34.47	35.32

Picture Tube:

25 Inch	A59KPR84X05 (B)	SED CPT	Quick start, In-line-gun, Black stripe, 110° degree deflection
	A59EAK71X01	PHILIPS CPT	
28/29 Inch	A68KVM74X02 (B)	SED CPT	
	A66EAK71X01	PHILIPS CPT	
30 Inch	A70QBZ791X001	SED CPT	

Power Requirements: AC 100~260V, 50/60Hz

Antenna Input Impedance: VHF, UHF : Telescopic dipole antenna (75 ohm unbalanced type)

Speaker Impedance 8 ohm, 10W+10W

2-2 IC Line Up

Table 2-1 IC Line-Up

Loc. No	Specification	Description	Remark
HIC101	PAP102T	IF PRE-AMP	
IC201	TDA8375 N3	PAL-B/G, SECAM-B/G, NTSC, SECAM-L, E/W ADJ .,16:9	
IC202	TDA4665	1H DELAY	
IC203	TDA8395	SECAM DECODER	
IC301	TDA8350Q	VERTICAL DEFLECTION AMP	
IC401	KA7812	REGULATOR (12V)	
IC501	TDA6101Q	RGB DRIVE AMP	
IC502	TDA6101Q	RGB DRIVE AMP	
IC503	TDA6101Q	RGB DRIVE AMP	
IC504	SPK101T	SPOT-KILLER	
IC601	TDA7297	SOUND-AMP (10W +10W)	
IC701	TDA9859	SOUND PROCESS	
IC801	KA3S1265R	POWER IC (STR)	
IC802	KA7630	CUSTOM REGULATOR (5V, 8V)	
IC803	SE130N	ERROR AMP	SED CPT
	SE140N		PHILIPS CPT
IC804	KA78R05	REGULATOR (5V)	
ICT01	SAA5281 P/E,P/R	TTX-CHARACTER, GENERATOR	
	SAA5261	TTX-DECODER	
ICT04	X24C02	E^2-PROM	
IC901	Z8933112 PSC	μ-com	
IC902	AT24C04	E^2-PROM	
ICN02	TDA9874H	NICAM DECODER	

2-3 Semiconductor Base Diagrams

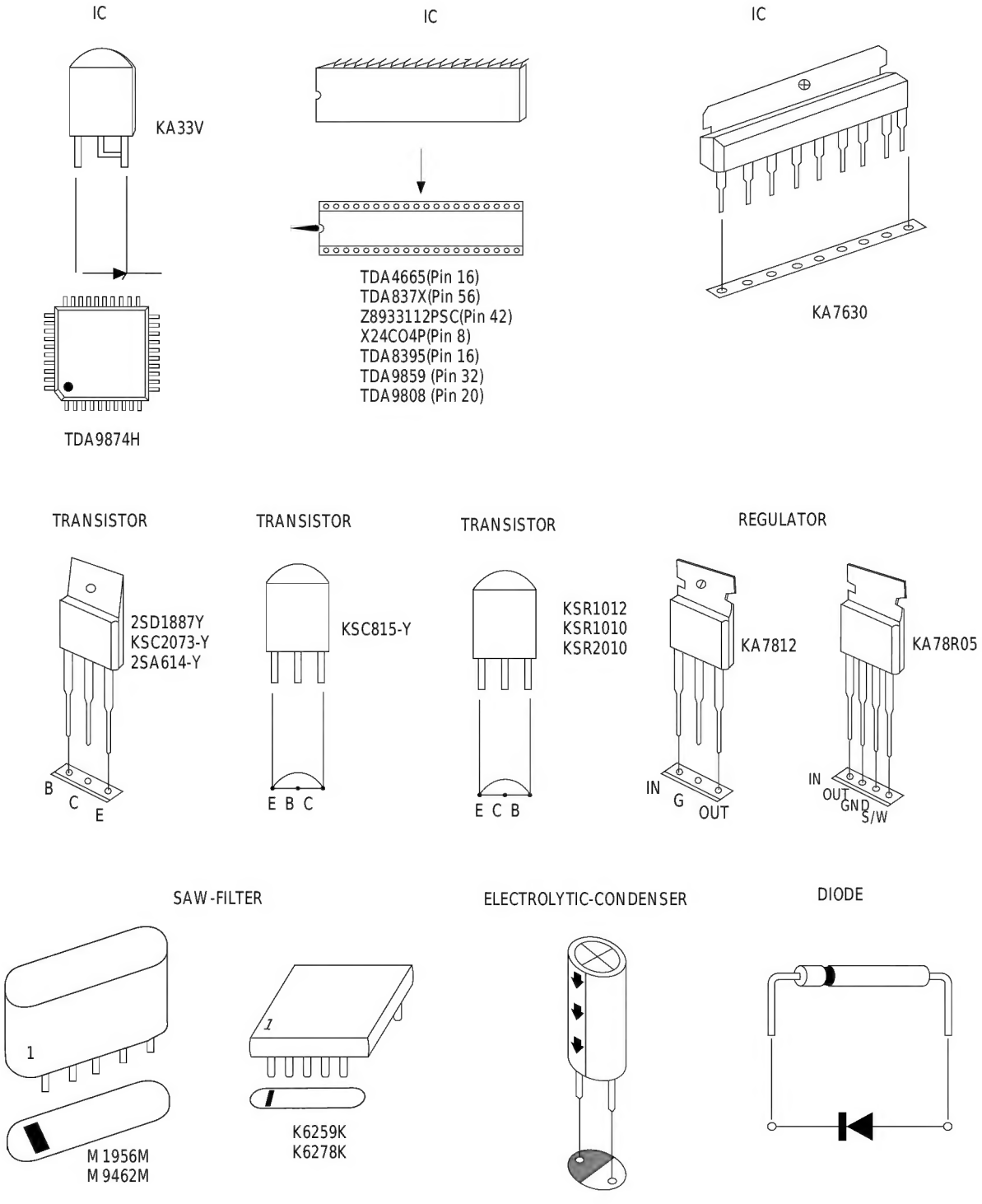


Fig. 2-1 Semiconductor Base Diagrams

MEMO

3. Disassembly and Reassembly

3-1 Back Cover Removeal

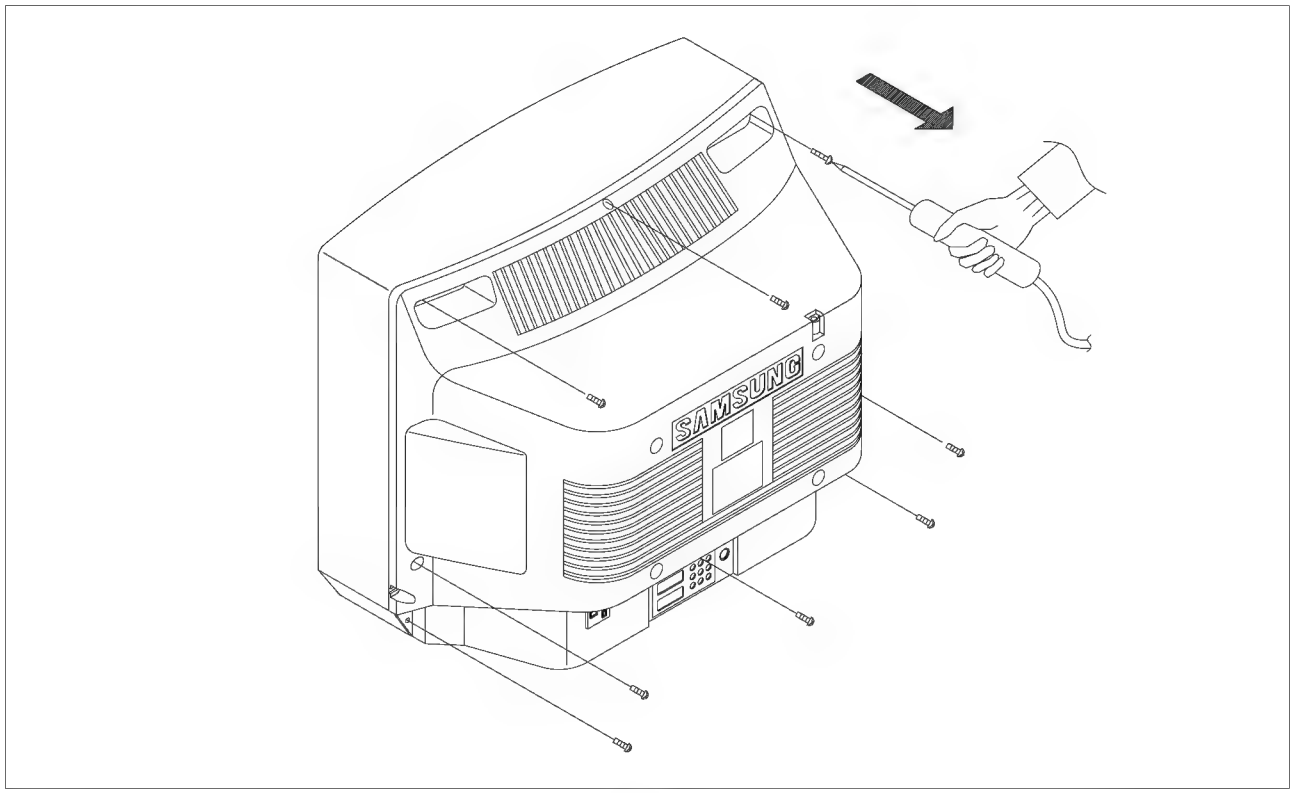


Fig. 3-1

1. After removing the screws, pull the cabinet backwards.

3-2 Main Board Removal

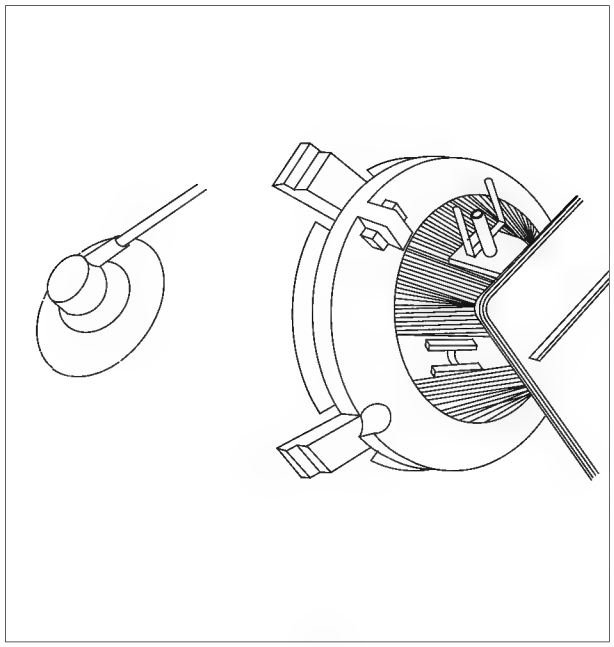


Fig. 3-2

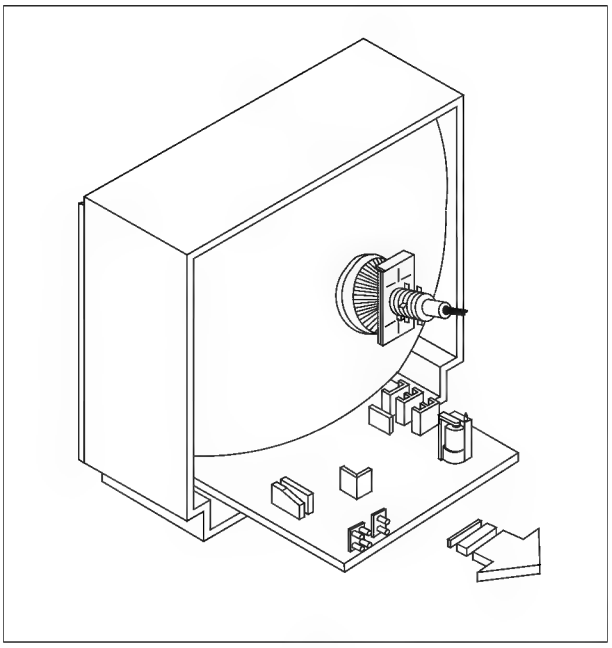


Fig. 3-3

1. Separate the socket board from the CRT neck.
2. Remove the Anode Cap from the CRT.
3. Remove the main board by pulling it with both hands.

Warning: The FBT is charged with high voltage.
Before removing the Anode Cap, discharge the voltage through one of the heat sinks on the main board.

3-3 Speaker Removal

1. Loosen the screws and remove the speakers.

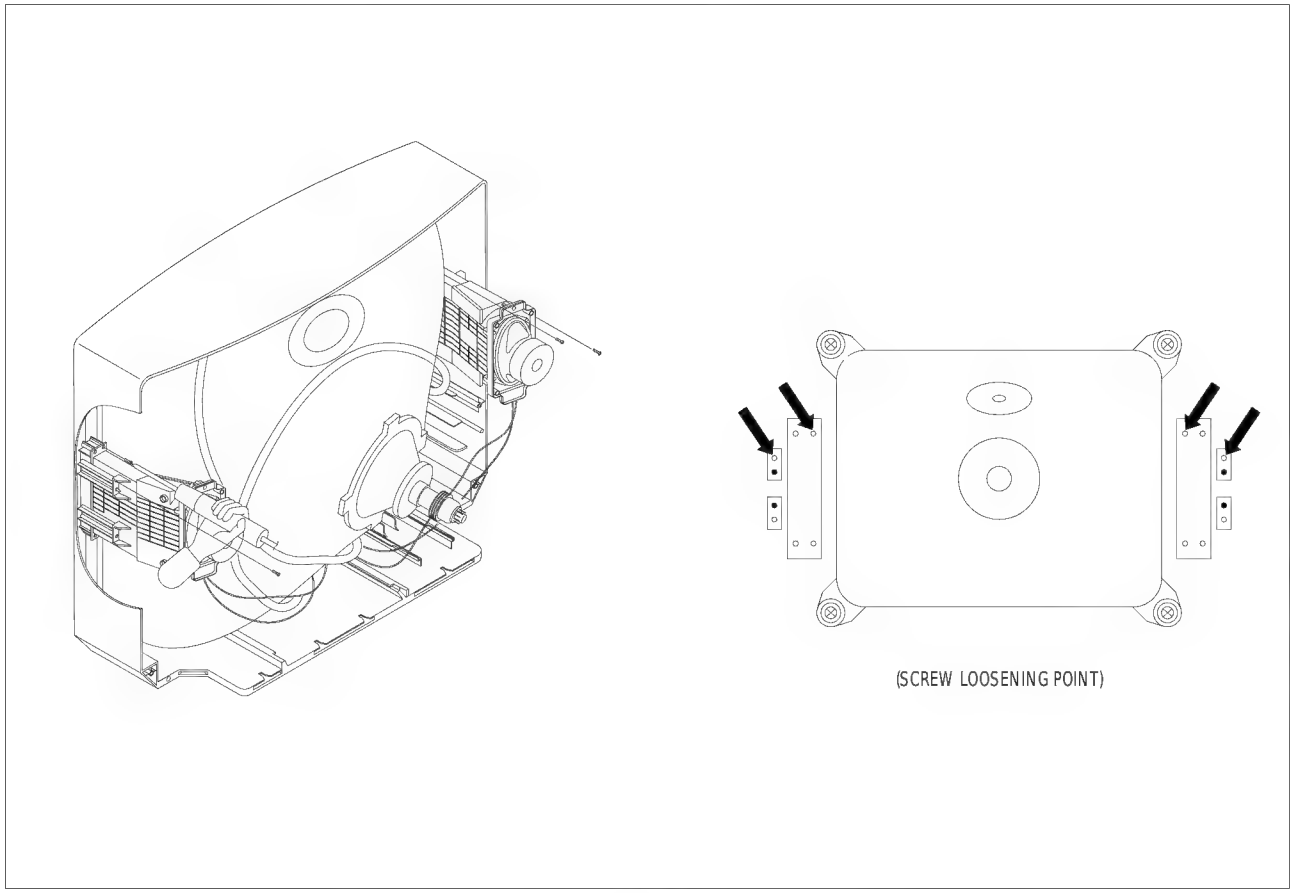


Fig. 3-4

3-4 CRT Removel

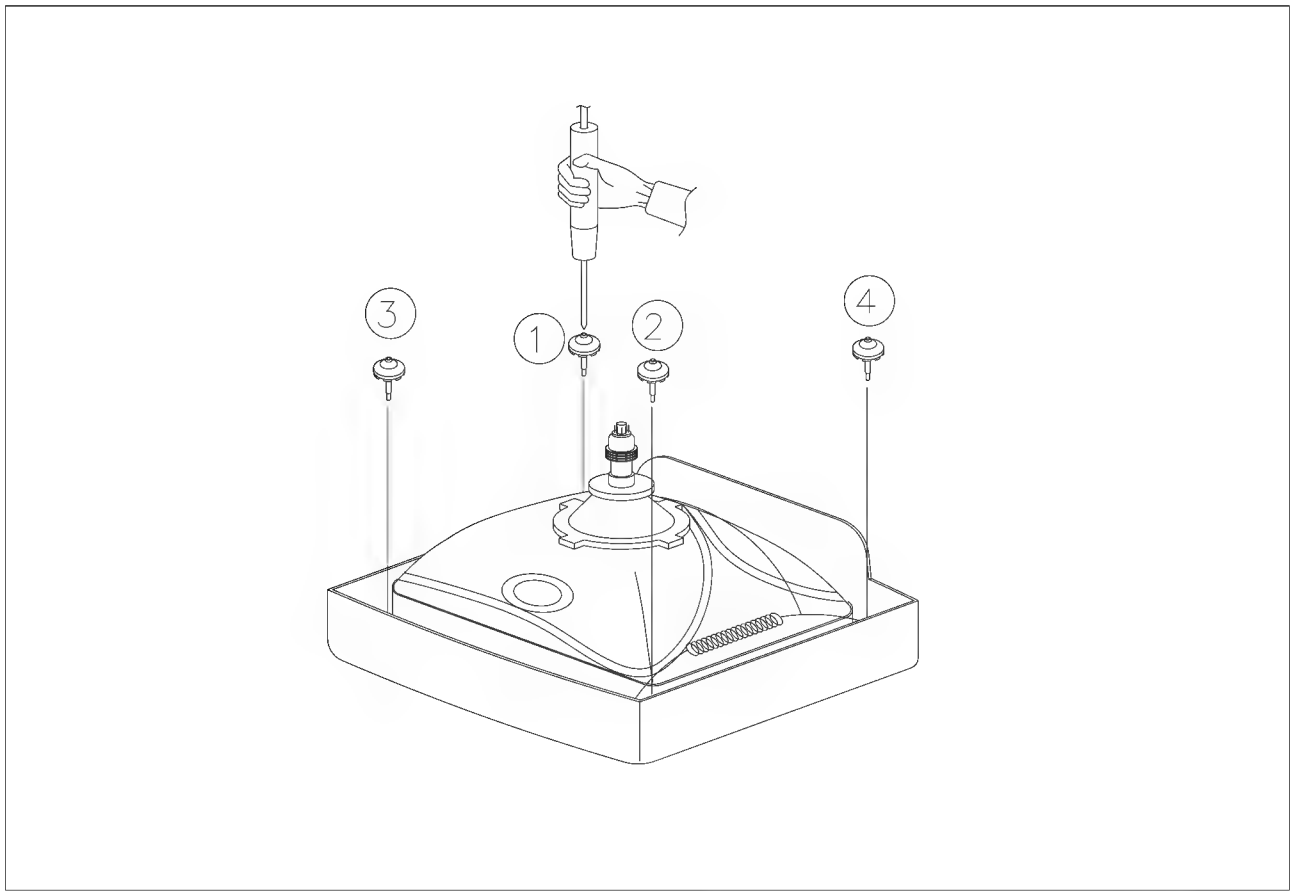


Fig. 3-5

1. Spread a soft mat on the floor. Place the TV set face down.
2. Remove the 4 nuts mounting the CRT to the front cabinet.
3. Lift the CRT.
4. Caution: Because of the high vacuum and large surface area of the picture tube, be careful while handling it:
   (1) Always lift the picture tube by grasping it firmly around the face-plate, (2) Never lift the tube by its neck. (3) Do not scratch the picture tube or apply excessive pressure. Fractures of the glass may cause an implosion.

4. Alignment and Adjustments

4-1 Preadjustment

4-1-1 Factory Mode

1. Do not attempt these adjustments in the Video Mode.
2. The Factory Mode adjustments are necessary when either the EEPROM (IC902) or the CRT is replaced.
3. Do not tamper with the "Adjustment" screen of the Factory Mode menu. This screen is intended only for factory use.

4-1-2 When EEPROM (IC902) Is Replaced

1. When IC902 is replaced all adjustment data revert to initial values. It is necessary to re-program this data.
2. After IC902 is replaced, warm up the TV for 10 seconds

4-1-3 When CRT Is Replaced

1. Make the following adjustments AFTER setting up after setting up purity and convergence:

   White Balance
   Sub-Brightness
   Vertical Center
   Vertical Size
   Horizontal Size
   Fail Safe (This adjustment must be the last step.)

2. If the eeprom or CRT is replaced, set PSL and PVA to 15 and 63 (Factory Mode).

4-2 Factory/Service Mode

4-2-1 Procedure for the "Adjustment" Mode

1. This mode uses the standard remote control. The Service Mode is activated (1) by pressing the (Display→ FACTORY) service key or (2) by entering the following remote-control sequence:

   STAND-BY→ DISPLAY→P-STD → MUTE → POWER ON

2. The "SERVICE (FACTORY)" message will be displayed. The Service Mode has four components: Adjustment, Test Pattern, Option Bytes and Reset.
3. Access the Adjustment Mode by pressing the "VOLUME" keys (Up or Down). The adjustment parameters are listed in the accompanying table. Select them by pressing the CHANNEL keys (▲,▼).
4. Selection sequences for the PAL system:

   down or up key:
   AGC>VCO>SBT>SCT>SCR>SC>RG>BG>
   CG>STT>VOL>LA>PSL>PVS>PVA>PHS>
   PWE>PEP>PEC>PET>CDL>TSC>SA>NSL>
   NVS>NVA>NHS>NEW>NEP>NEC>NET

5. Selection sequences for the NTSC system:

   down or up key:
   NSL>NVS>NVA>NHS>NEW>NEP>NEC>NET

6. The VOLUME keys increase or decrease the adjustment values, (stored in the non-volatile memory when Adjustment Mode is cancelled).
7. Cancel the Adjustment Mode by re-pressing the "Factory" or "Power on" keys.

4-2-2 Adjustment Parameter

4-2-2 (A) MAIN ADJUSTMENT PARAMETER

Table 4-1 Main Adjustment Parameter (Zilog μ-com)

FUNCTION	OSD ABBREVIATION	RANGE	ADJUSTMENT DATA	INITIAL
AUTO GAIN CONTROL	AGC	0 ~ 63 STEP	26 ~ 33	15
VOLTAGE CONTROLLED OSCILLATOR	VCO	0 ~ 127 STEP	60 ~ 75	63
SUB BRIGHT	SBT	0 ~ 23 STEP	6 ~ 10	7
SUB CONTRAST	SCT	0 ~ 23 STEP	7 ~ 10	7
SUB COLOR	SCR	0 ~ 23 STEP	10 FIXED	15
S-CORRECTION	SC	0 ~ 63 STEP	16 FIXED	11
RED DRIVE (GAIN)	RG	0 ~ 63 STEP	25 ~ 45	31
BLUE DRIVE (GAIN)	BG	0 ~ 63 STEP	25 ~ 45	31
CATHODE DRIVE LEVEL	CDL	0 ~ 7 STEP	7	4
SUB TINT	STT	0 ~ 13 STEP	4 FIXED	5
VOLUME CONTROLLED	VOL	0 ~ 63 STEP	25 FIXED	63
SOUND LEVEL ADJUSTMENT (A2 ONLY)	LA	0 ~ 63 STEP	5	5
PAL VERTICAL SLOPE	PSL	0 ~ 63 STEP	25 FIXED	25
PAL VERTICAL SHIFT	PVS	0 ~ 63 STEP	25 ~ 35	31
PAL VERTICAL AMPLITUDE	PVA	0 ~ 63 STEP	35	31
PAL HORIZONTAL SHIFT	PHS	0 ~ 63 STEP	35 ~ 45	40
PAL EW-WIDTH	PEW	0 ~ 63 STEP	35 ~ 45	38
PAL EW-PARABOLA	PEP	0 ~ 63 STEP	0 ~ 10	22
PAL EW CORNER PARABOLA	PEC	0 ~ 63 STEP	15 ~ 30	22
PAL EW-TRAPEZIUM	PET	0 ~ 63 STEP	15 ~30	30
TTX SUB CONTRAST	TSC	0 ~ 63 STEP	10 ~ 30	15
SEPARATION ADJUSTMENT (A2 ONLY)	SA	0 ~ 49 STEP	25	25
NTSC VERTICAL SLOPE	NSL	0 ~ 63 STEP	25 FIXED	25

Table 4-1 Main Adjustment Parameter (Zilog μ-com)(Continued)				
FUNCTION	OSD ABBREVIATION	RANGE	ADJUSTMENT DATA	INITIAL
NTSC VERTICAL SHIFT	NVS	0 ~ 63 STEP	35 ~ 45	44
NTSC VERTICAL AMPLITUDE	NVA	0 ~ 63 STEP	25 ~ 35	28
NTSC HORIZONTAL SHIFT	NHS	0 ~ 63 STEP	35 ~ 50	45
NTSC EW-WIDTH	NEW	0 ~ 63 STEP	35 ~ 45	37
NTSC EW PARABOLA	NEP	0 ~ 63 STEP	15 ~ 30	21
NTSC EW-CORNER PARABOLA	NEC		15 ~ 30	20
NTSC EW-TRAPEZIUM	NET		15 ~ 30	30

NOTE : PVS,PVA, PHS, NVS, NVA,NHS parameters must be aligned using both the 50Hz and 60Hz vertical-field rates.

4-2-2 (B) PIP FACTORY ADJUSTMENT

Table 4-2 PIP Factory Adjustment (Zilog μ-COM)					
FUNCTION	OSD ABBREVIATION	RANGE	ADJUSTMENT DATA	INITIAL	REMARKS
PIP SUB-CONTRAST	SCT	0 ~ 15 STEP	15	10	
PIP SUB-TINT (NTSC)	STT	0 ~ 63 STEP	31	31	
PIP HORIZONTAL MOVE	PHM	0 ~ 15 STEP	8	8	
PIP VERTICAL POSITION	PVP	0 ~ 63 STEP	31	31	
PIP HORIZONTAL POSITION	PHP	0 ~ 84 STEP	42	42	
LUMINANCE DELAY	LDL	0 ~15 STEP	0	0	NO USED (USED TDA8844)
PLUS EW	QEW	0 ~7 STEP	6	5	
STEEPNESS	SSP	0 ~ 63 STEP	31	31	NO USED
NON LENEARITY AMPLIFIER	NLA	0 ~ 63 STEP	31	31	NO USED
GAMMA	GAM	0 ~ 63 STEP	31	31	NO USED
LINE WIDTH	LWD	0 ~ 63 STEP	31	31	NO USED

4-2-3 Test Pattern

1. This mode can be used during servicing, or for confirming that the convergence and purity adjustments are correct.

2. Access the Test Pattern parameters by pressing a CHANNEL keys (▲,▼) while the Service Mode is on. The cursor will move to the test pattern. Press the VOLUME keys. On-screen display:

   ♦ RED ♦ GREEN ♦ BLUE

4-2-4 SZM199EX MICOM Option Byte (Integrated)

BYTE0

BYTE	BIT	LOW			HIGH		Remark	
	D7 D6	199EC1	199EP	199EV	199ER2	199EE	199ET1/199ET2	199EA1/199EA
	0 0	English/ Chinese	English/ Persian	English/ Vietnamese	English/ Bulgarian	English/Hungarian/Romanian /Croatian/Polish/Czech	English/Thai	English/Arabian
	0 1	English/ Chinese	English/ French/ Persian	English/ Vietnamese/ Indonesian	English/ Russian	English/Hungarian/Romanian /Croatian/Polish/Czech	English/Thai/ Malay	English/French/ Arabian
	1 0	English	English/ French	English/ Indonesian	English/ Russian/ Bulgarian	English/Hungarian/Romanian /Croatian/Polish/Czech	English/Thai	English/French
	1 1	English	English	English	English	English	English	English

	D5	STANDBY MODE WHEN M-S/W ON (ALWAYS)	M-S/W OFF	LAST POWER MEMORY
	D1	WITH CHILD LOCK (ONLY FOR MIDDLE EAST ASIA)	WITHOUT CHILD LOCK	CHILD LOCK
	D0	TTX OFF	TTX ON	TTX

D4	D3	D2	SYSTEM	SOUND SYSTEM		COLOR SYSTEM			
				OSD	System	RF MODE		AV1 / AV2 MODE	
						OSD	System	OSD	System
1	1	1	CI	x	I	x	PAL	x	AUTO
1	1	0	CII	x	I	x	PAL	x	AUTO
1	0	1	CW	B/G→I→D/K→		AUTO→PAL→SECAM→NT4.43→		AUTO→PAL→SECAM→NT4.43→NT3.58	
1	0	0	CF	x	B/G, L/L'	x	PAL/SECAM	x	AUTO
0	1	1	CK/CX	D/K→B/G		AUTO→PAL→SECAM→NT4.43→		AUTO→PAL→SECAM→NT4.43→	
0	1	0	CB	x	B/G	x	PAL	x	AUTO
0	0	1	CS1(FOR CHINA)	B/G→I→D/K→M→		AUTO→PAL→NT4.43→NT3.58		AUTO→PAL→NT4.43→NT3.58	
0	0	0	CS2	B/G→I→D/K→M→		AUTO→PAL→SECAM→NT4.43→NT3.58		AUTO→PAL→SECAM→NT4.43→NT3.58	

BYTE1

	D7	WITHOUT PIP	WITH PIP	PIP
	D6	DISPLAY OFF (WHEN USING TDA83XX)	DISPLAY ON (WHEN USING TDA88XX)	NOISE REDUCTION
	D5	SCART	RCA	CH UP/DOWN INSULATION IN THE A/V MODE (SCART FUNCTIONAL/RCA NOT FUNCTIONAL)
	D4 D3 D2	(see table below)		● NORMAL MODE E/W DATA = PLUS + QEW ● NORMAL MODE PHS DATA = PLUS-1 (PAL/NT)
	D1 D0	(see table below)		(1) SOUND SYSTEM COMES FIRST WHEN AUTO SEARCH (2) SOUND SYSTEM WHEN FACTORY MODE RESET (3) MANUAL SEARCH DOES NOT MATTER

D4	D3	D2	TV	A/V
0	0	0	PLUS→NORMAL	PLUS→NORMAL
0	0	1	PLUS→NORMAL→ZOOM→16:9	PLUS→NORMAL→ZOOM
0	1	0	NORMAL→ZOOM→16:9	NORMAL→ZOOM→16:9
0	1	1	NORMAL→ZOOM→16:9	NORMAL→ZOOM
1	0	0	NORMAL→ZOOM	NORMAL→ZOOM
1	0	1	PLUS→NORMAL→ZOOM	PLUS→NORMAL→ZOOM

DI	D0	System	Remark
0	0	B/G	"MEMORY" BY PROGRAM CHANNEL REQUIRED
0	1	I	
1	0	D/K	
1	1	B/G & D/K (?)	APPLIED TO MOMO AND LINE STEREO MODELS (ONLY) (ONLY WHEN OPTION BYTE2 : D7=1, D6=0 BYTE2D : D7=1, D6=1)

<table>
<tr><th>BYTE</th><th>BIT</th><th>LOW</th><th>HIGH</th><th>REMARK</th></tr>
<tr><td rowspan="10">BYTE2</td><td rowspan="4">D7
D6</td><td colspan="3"><table>
<tr><th>D7</th><th>D6</th><th>SYSTEM</th><th>IC</th><th>SCART</th></tr>
<tr><td>0</td><td>0</td><td>STEREO + NICAM</td><td>TDA9859 / TDA9874</td><td rowspan="3">2 SCART
(2-INPUT RCA)</td></tr>
<tr><td>0</td><td>1</td><td>STEREO</td><td>TDA9859 / TDA9840</td></tr>
<tr><td>1</td><td>0</td><td>LINE STEREO</td><td>TDA9859(A/V SELECT IC)</td></tr>
<tr><td>1</td><td>1</td><td>MONO</td><td>TDA8844</td><td>1 SCART (1-INPUT RCA)</td></tr>
</table></td></tr>
<tr><td>D5</td><td>NOT USED</td><td>USED</td><td>LTI FUNCTION (TDA9178 USED)</td></tr>
<tr><td>D4</td><td>OFF</td><td>ON</td><td>NICAM ERROE CHECK BIT</td></tr>
<tr><td>D3</td><td>AFT-ON</td><td>AFT-OFF</td><td>OFF (INDIA ONLY)</td></tr>
<tr><td>D2</td><td>TDA8375</td><td>TDA8844</td><td>OPTION (DISSIMILAR CONTROL BIT)</td></tr>
<tr><td>D1</td><td>OFF</td><td>ON</td><td>RF AUDIO OUT MUTE OFF(ONLY WHEN SHIPPED TO RUSSIA)</td></tr>
<tr><td rowspan="4">D0</td><td>NOT USED</td><td>NOT USED</td><td>SPECIFICATION WHEN SZM199EA/EA1/ET/ER2/EC1/EC MICOM IS APPLIED</td></tr>
<tr><td>TDA8374, TDA8842</td><td>TDA8375, TDA8844</td><td>1-CHIP FUNCTION (WHEN APPLYING SZM199EP)</td></tr>
<tr><td>TIMER DISPLAY OFF</td><td>TIMER DISPLAY ON</td><td>SZM199EV ON (ONLY WHEN SHIPPED TO INDONESIA)</td></tr>
<tr><td>STAND_BY : LED=RED
PICTURE ON : LED=OFF</td><td>STAND_BY : LED=OFF
PICTURE ON : LED=RED</td><td>LED SPECIFICATION WHEN SZM-199EE IS APPLIED
(HIGH ONLY WHEN SHIPPED TO POLAND)</td></tr>
<tr><td colspan="5">FEATURES OF SZM-199EE : 1. NO TIMER
2. NO PIP (PIP + TTX MODULE), BUT TTX CAN BE SEPARATLY USED.
3. NO SOUND OUTPUT CONTROL "VOL" (FACTORY MODE).
4. WHEN BYTE2 D0 = HIGH, NICAM MODEL: D/K STEREO F = 6.25 MHz</td></tr>
</table>

4-2-5 RESET

The Reset Mode is used during factory inspection.
Function Reset:

1. Channels — Added/Erase
2. Sort — NON
3. Language — Basic (English)
4. System — Auto (Non-TTX micom only)

4-3 Other Adjustments

4-3-1 General

1. Usually, a color TV needs only slight touch-up adjustment upon installation. Check the basic characteristics such as height, horizontal and vertical sync and focus.

2. The picture should have good black and white details. There should be no objectionable color shading; if color shading is present, perform the purity and convergence adjustments described below.

3. Use the specified test equipment or its equivalent.

4. Correct impedance matching is essential.

5. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV. When inserting signal markers, do not allow the marker generator to distort test results.

6. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.

7. Do not attempt to connect or disconnect any wires while the TV is turned on. Make sure that the power cord is disconnected before replacing any parts.

8. To protect against shock hazard, use an isolation transformer.

4-3-2 Automatic Degaussing

A degaussing coil is mounted around the picture tube, so that external degaussing after moving the TV should be unnecessary. But the receiver must be properly degaussed upon installation.

The degaussing coil operates for about 1 second after the power is switched ON. If the set has been moved or turned in a different direction, disconnect its AC power for at least 10 minutes.

If the chassis or parts of the cabinet become magnetized, poor color purity will result. If this happens, use an external degaussing coil. Slowly move the degaussing coil around the faceplate of the picture tube and the sides and front of the receiver. Slowly withdraw the coil to a distance of about 6 feet before removing power.

4-3-3 High Voltage Check

CAUTION: There is no high voltage adjustment on this chassis. The B+ power supply must be set to +130/155 volts.
(Full color bar input and normal picture level).

1. Connect a digital voltmeter to the second anode of the picture tube.

2. Turn on the TV. Set the Brightness and Contrast controls to minimum (zero beam current).

3. The high voltage should not exceed 33KV.

4. Adjust the Brightness and contrast controls to both extremes. Ensure that the high voltage does not exceed 33KV under any conditions.

4-3-4 FOCUS Adjustment

1. Input a black and white signal.

2. Adjust the tuning control for the clearest picture.

3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

4-3-5 Screen Adjustment

1. Turn to the ACTIVE channel.

2. Adjust the VR screen for a normal picture is (no blooming or flyback line).

3. Adjust the FOCUS control for well defined scanning lines in the center area of the screen.

4-3-6 Purity Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Plug in the CRT deflection yoke and tighten the clamp screw.
3. Plug the convergence yoke into the CRT and set in as shown in Fig. 4-1.
4. Input a black and white signal.
5. Fully demagnetize the receive by applying an external degaussing coil.
6. Turn the CONTRAST and BRIGHTNESS controls to maximum.
7. Loosen the clamp screw holding the yoke. Slide the yoke backward or forward to provide vertical green belt. (Fig. 4-2).
8. Tighten the convergence yoke.
9. Slowly move the deflection yoke forward, and adjust for the best overall green screen.
10. Temporarily tighten the deflection yoke.
11. Produce blue and red rasters by adjusting the low-light controls. Check for good purity in each field.
12. Tighten the deflection yoke.

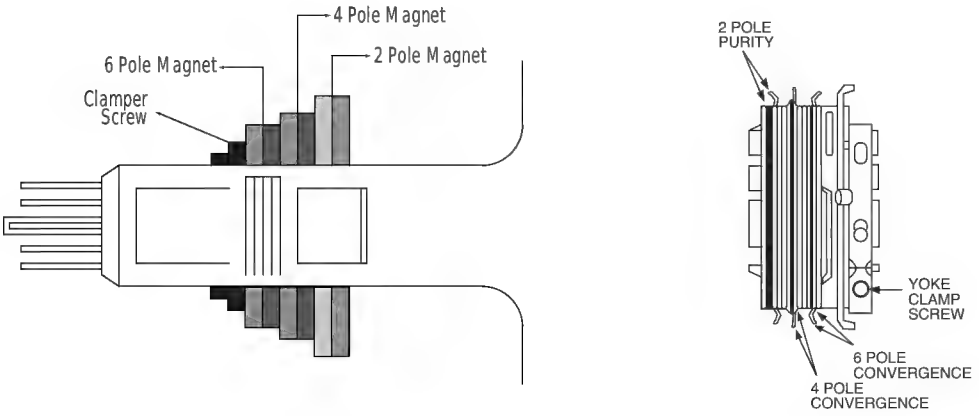


Fig. 4 -1 Convergence Magnet Assembly

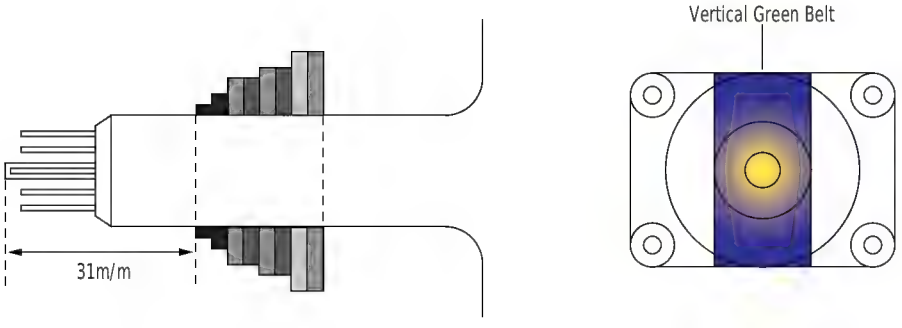


Fig. 4-2 Center Convergence Adjustment

4-3-7 White Balance Adjustment

4-3-7 (A) HIGH-LIGHT ADJUSTMENT

1. Input either a Lion Head or a "pure white" pattern.
2. Warm up the TV for 30 minutes.
3. Check the data in the Service Mode (RG,GG,BG Should be 31, initially)
4. Adjust RG, BG in the Factory Mode.

4-3-7 (B) LOW-LIGHT ADJUSTMENT:

1. Automatically accomplished during the high-light adjustment.

4-3-8 Center Convergence Adjustment

1. Warm up the receiver for at least 20 minutes.
2. Adjust the two tabs of the 4 pole magnets to change the angle between them. Superimpose the red and blue vertical lines in the center area of the screen.
3. Adjust the Brightness and Contrast controls for a well defined picture.
4. Adjust the two-tab pairs of the 4 pole magnets, and change the angle between them. Superimpose the red and the blue vertical lines in the center area of the screen.
5. Turn the both tabs at the same time, keeping the angle constant, and superimpose the red and blue horizontal line in the center of the screen.
6. Adjust the two-tab pairs of the 6-pole magnets to superimpose the red and blue line onto the green. (Changing the angle affects the vertical lines, and rotating both magnets affects the horizontal lines.)
7. Repeat adjustments 2~6, if necessary.
8. Since the 4-pole magnets and 6-pole magnets interact, the dot movement is complex (Fig. 4-3).

Fig. 4-3 Center Convergence Adjustment

4-3-9 VCO Adjustment

1. Connect to tuner IF pin.
2. Apply an IF input (38.9MHz) signal.
3. In Factory Mode, adjust the AFC with the VCO tuning bits (AFA, AFB).

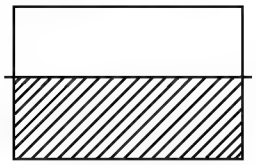
   The VCO is correct when the AFA Bit is "INSIDE WINDOW " (The AFB Bit is above~below). The AFC output is available on the I2C-BUS (used for VCO adjustment and feedback).

4-3-10 IF AGC Adjustment

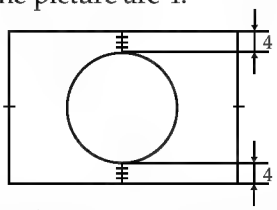
1. Input a UHF Band channel (70~80dB, 479.25MHz).
2. Adjust the AGC in the Factory mode. IC201 Pin 53 to 3.6V $\pm$ 0.05V (DC).

4-3-11 Geometry Adjustment (SC -> PVS -> PVA ->PSL -> PHS)

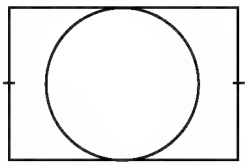
1. Input a Lion Head pattern.
2. SET the SC Data fixed 16 in the Factory Mode.
3. Adjust with PVS (starts blinking) exactly at middle of the screen.



4. Adjustment with PVA : Top and Bottom margins of the picture are 4.



5. Adjustment with PSL : Bottom of picture to bottom of screen.



6. Adjust PHS horizontally. Center the picture.

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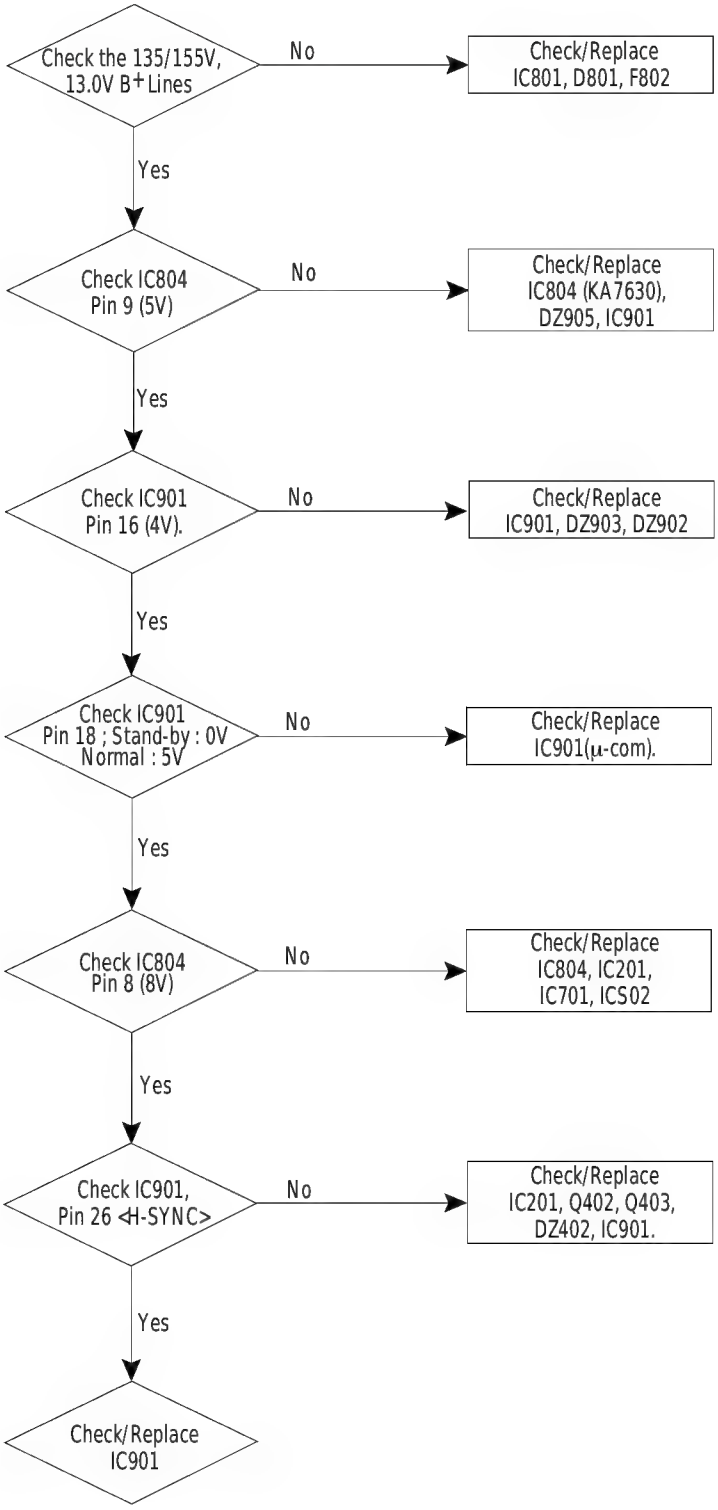
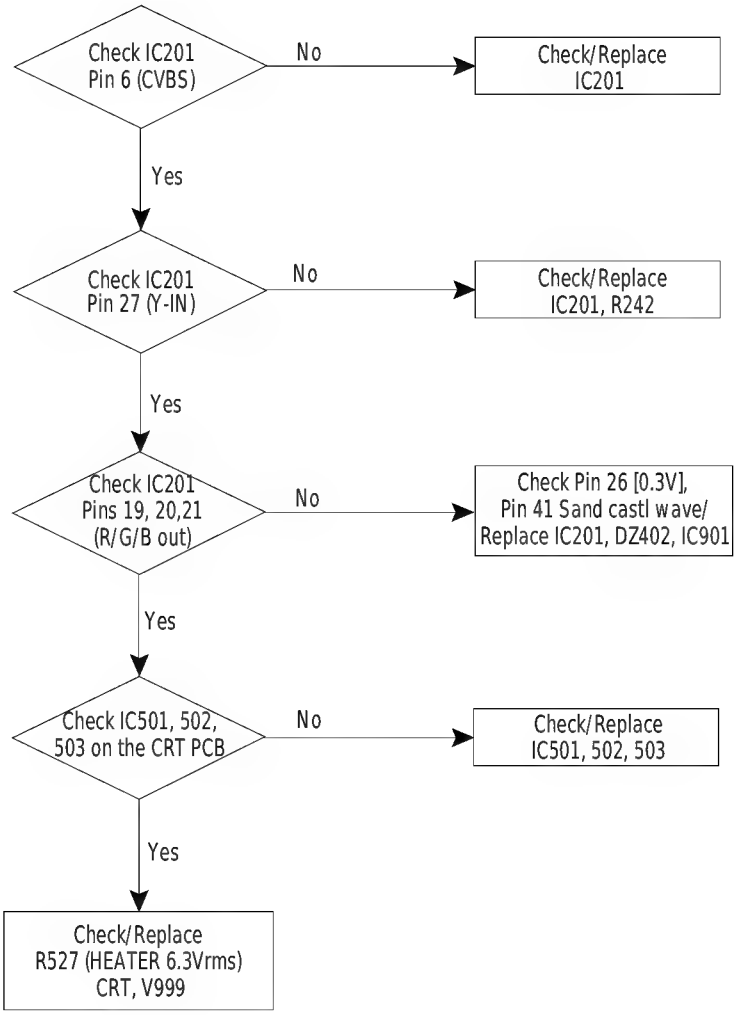
5. Troubleshooting

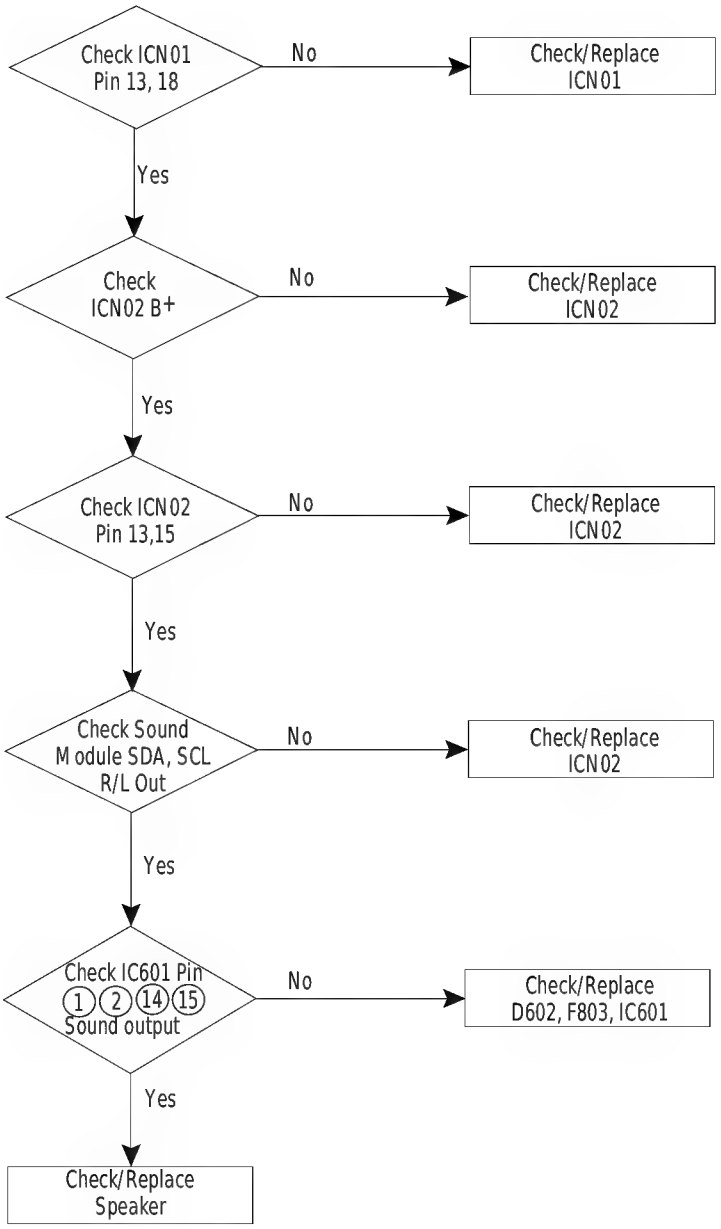
5-1 No Power



5-2 No Video (Sound Ok)



5-3 No Sound (Video Ok)



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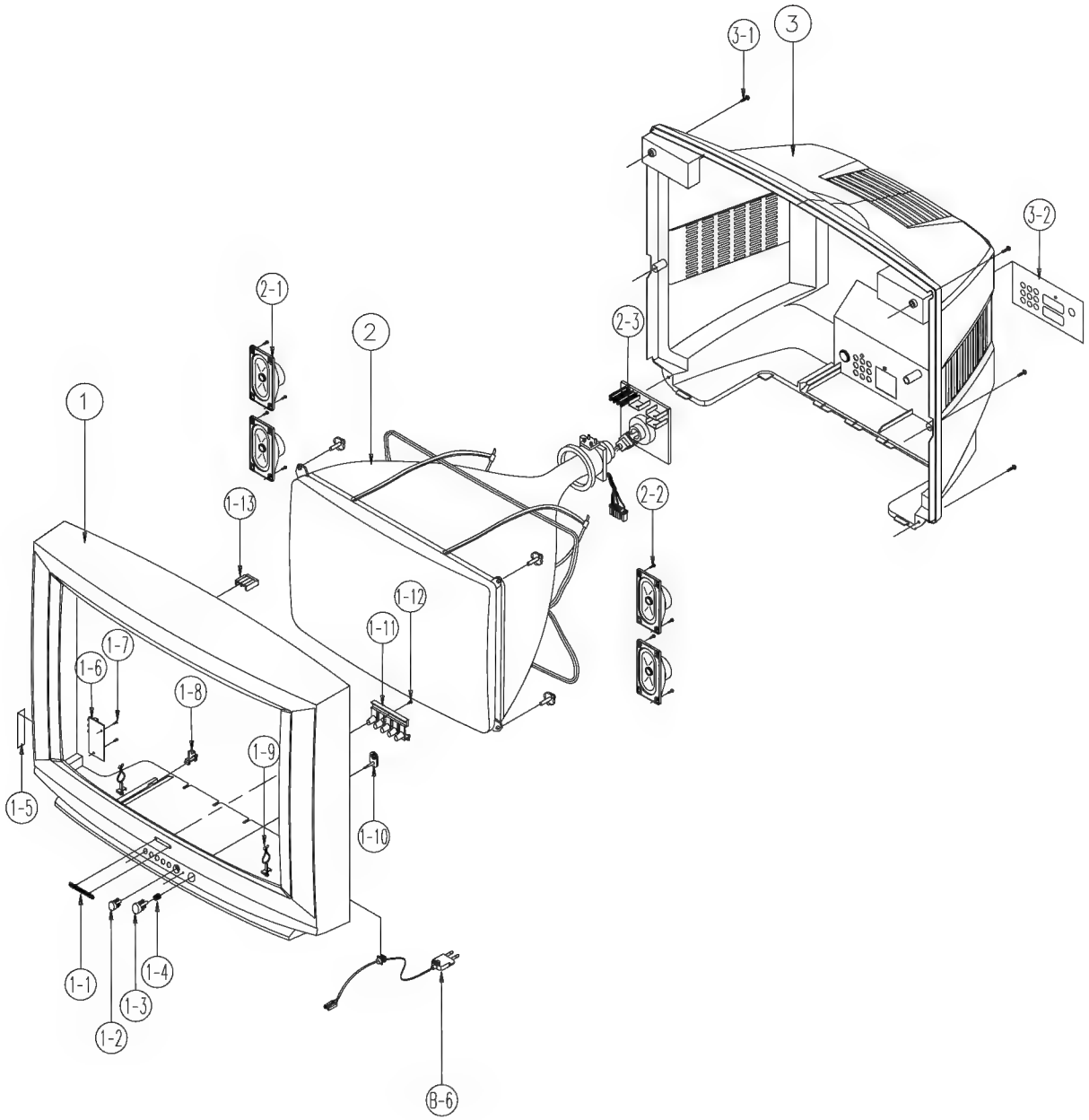
7. Exploded View & Parts List

7-1 CS765DWT2X/BWT



No.	Code No.	Description & Specification	Q'ty	Remarks
1	AA64-31160F	CABINET-FRONT;-,CK765DWTR,DG703P BWT ML,	1	
1-1	AA64-70117A	BADGE-BRAND;AL,SS,FLAT,L65,SILVER,-,-	1	S.N.A
1-2	AA64-40479A	WINDOW-REMOCON;-,765D,-,ABS,HB,-,CLR LG4	1	
1-3	AA64-10740D	KNOB-POWER;-,765D,G3676 NO-SILK,ABS,HB,H	1	
1-4	AA61-60003N	SPRING-CS;-,SUS304,0.6,OD11.2,H27,N9,H27	1	S.N.A
1-5	AA64-60423K	INLAY-AV;761B,SCT57A L/GRY,PS,T0.3,BLK,	1	S.N.A
1-6	AA95-90027W	ASSY-PCB,A/V SIDE;-,761B,SCT57A,PAL,-,-	1	
1-7	6002-000514	SCREW-TAPPING(AV+CF);RH,+,2,M4,L15,ZPC(BLK),SWR	2	S.N.A
1-8	AA61-40053A	STOPPER-PCB;ALL MODEL,HIPS HB,WHT,HB,-,-	1	S.N.A
1-9	AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	2	S.N.A
1-10	AA64-40480A	INDICATOR-LED;-,765D,-,ABS,-,CLR,-	1	
1-11	AA64-10741A	KNOB-CONTROL;-,765D,G3676,ABS,HB,HI-GRY	1	
1-12	6002-000514	SCREW-TAPPING(KC+CF);RH,+,2,M4,L15,ZPC(BLK),SWR	1	S.N.A
1-13	AA61-40010A	BOSS-WING;-,HIPS,HB,NTR,-,-	1	S.N.A
2	AA03-10029B	CRT-COLOR;-,A70QBZ791X001(B),+500mG,29",	1	
2-1	3001-000280	SPEAKER;5W,16ohm,90dB,150Hz	4	
2-2	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWR	4	S.N.A
2-3	AA95-20009S	ASSY-PCB,CRT;-,SCT57A,30",-,-	1	
3	AA64-31180C	CABINET-BACK;-,765D,-,HIPS,V2,GRAY,-,-	1	
3-1	AA60-10050T	SCREW-TAPPING(CB+CF);RH,+,2S,M4,L20,ZPC(BLK),SW	7	S.N.A
3-2	AA64-60052C	INLAY-BACK;-,SCT57A,C SCART(2),PS,T0.5,B	1	S.N.A
B-6	AA39-10006X	POWER-CORD;-,KKP419C,KLCE-2F,2.286MT,3P,	1	

7. Electric Parts List

7-1.CK765DWT2X/BWT

Loc	Part-No	Description & Specification	Remarks
		ASSY-PCB,MAIN	
*	AA94-10134A	ASSY-PCB,MAIN(OPT);CK765DWT2X/BWT,SCT57C	
C101	2401-000758	C-AL;220NF,20%,50V,GP,TP,5X11MM,5MM	
C102	2401-000808	C-AL;220uF,20%,16V,GP,8x11mm,5mm,TP	
C103	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C104	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C105	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C106	2401-001082	C-AL;330NF,20%,50V,GP,TP,5X11MM,5MM	
C107	2401-000914	C-AL ; CEL1220M0511AA22uF,20%,16V,GP5	
C108	2401-001530	C-AL;47uF,20%,25V,GP,TP,5x11mm,5mm	
C109	2202-000127	C-CERAMIC,MLC-AXIAL;10nF,+80-20%,25V,Y5V	
C209	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C210	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
C211	2401-001530	C-AL;47uF,20%,25V,GP,TP,5x11mm,5mm	
C213	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C214	2401-000660	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
C215	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
C216	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
C217	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C218	2305-000411	C-FILM,MPEF;470nF,5%,50V,TP,7.3x4.8x5.5m	
C219	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
C220	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C221	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C222	2305-000412	C-FILM,MPEF;470nF,5%,63V,TP,-,5mm	
C223	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C224	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C225	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C226	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C227	2201-000611	56pF,5%,50V,CH,TP,6.5x3,5	
C228	2201-000144	C-CERAMIC,DISC;100pF,5%,50V,CH,TP,8x3,5	
C229	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C230	2301-000264	C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C231	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C232	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C233	2309-000138	C-FILM,PE-PPF;100nF,5%,50V,TP,20x16x8.5,	
C234	2401-000027	C-AL;4.7uF,20%,50V,GP,TP,5x11mm,5mm	
C235	2202-000794	C-CERAMIC,MLC-AXIAL;18pF,5%,50V,CH,TP,3.	
C236	2301-000204	C-FILM,PEF;2.7nF,5%,50V,TP,7.4x3.9x13mm,	
C237	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C238	2301-000201	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
C239	2301-000264	C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C241	2401-000603	C-AL;1UF,20%,50V,GP,TP,5X11MM,5MM	
C242	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C243	2401-000603	C-AL;1UF,20%,50V,GP,TP,5X11MM,5MM	
C244	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C245	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C246	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C301	2305-000407	C-FILM,MPEF;470nF,5%,100V,TP,-,5mm	
C302	2401-003028	C-AL;100uF,20%,25V,WT,TP,6.3x11,5mm	
C303	2401-002293	C-AL;68uF,20%,100V,WT,TP,10x20,5	
C304	2301-000212	C-FILM,PEF;220nF,5%,100V,-,16.0x10.0x24.	
C305	2305-000149	C-FILM,MPEF;100nF,5%,100V,TP,12x12.5x6.5	
C306	2301-000188	C-FILM,PEF;1nF,5%,100V,TP,10.5x12.5x6.5,	
C401	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,1.	
C402	2301-000380	C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm	
C403	2401-000395	C-AL;10uF,20%,160V,GP,TP,10x12.5mm,	
C404	2201-000291	C-CERAMIC,DISC;1nF,10%,500V,Y5P,TP,8.5x5	
C405	2401-002268	C-AL;2.2uF,20%,250V,LZ,TP,8X11,5	
C406	2301-001192	C-FILM,MPPF;0.82uF,5%,400V,TP,29x18.5x25	
C407	2201-000984	C-CERAMIC,DISC;680pF,10%,2KV,Y5P,TP,11x6	
C408	2305-000382	C-FILM,MPEF;4.7nF,5%,400V,TP,-,5mm	
C409	2201-000551	C-CERAMIC,DISC;470pF,10%,1KV,Y5P,TP,8x5,	
C410	2401-001661	C-AL;68uF,20%,100V,GP,TP,10x16mm,5m	
C411	2305-000178	C-FILM,MPEF;10nF,5%,100V,TP,-,5mm	
C412	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4	
C413	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C414	2306-000329	C-FILM,MPPF;7nF,3%,1.6KV,TP,28.5x18.5x11	
C415	2306-000327	C-FILM,MPPF;6.3nF,3%,1.6KV,TP,28.5x18x10	
C416	2303-001026	C-FILM,PPF;33nF,10%,400V,TP,20x15x8,7.5	
C417	2301-001192	C-FILM,MPPF;0.82uF,5%,400V,TP,29x18.5x25	
C418	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4	
C419	2401-001397	C-AL;470uF,20%,25V,GP,10x16mm,5mm,T	
C420	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C421	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C422	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
C423	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4	
C424	2401-000927	C-AL;22UF,20%,250V,GP,TP,13X20MM,5M	
C425	2305-000154	C-FILM,MPEF;100nF,5%,400V,TP,21.5x6.5x11	
C426	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C601	2401-000587	C-AL;1uF,20%,50V,BP,TP,5x11,5mm	
C602	2301-000201	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
C603	2401-001333	C-AL;470nF,20%,50V,GP,TP,5x11,5	
C604	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C605	2401-000587	C-AL;1uF,20%,50V,BP,TP,5x11,5mm	
C606	2301-000201	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
C607	2401-001998	C-AL;1000uF,20%,25V,GP,TP,10x20,5mm	
C702	2401-001495	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C703	2201-000487	C-CERAMIC,DISC;33pF,5%,50V,SL,TP,5x3,5m	
C705	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5m	
C707	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C709	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
C710	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C711	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm	
C712	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
C713	2301-000247	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5	
C714	2301-000289	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5	
C717	2301-000289	C-FILM,PEF;5.6nF,5%,50V,TP,7x6x3,5	
C718	2301-000247	C-FILM,PEF;33nF,5%,50V,TP,8.1x4.5x13mm,5	
C719	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C720	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm	
C721	2301-000175	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5	
C722	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5m	
C723	2301-000175	C-FILM,PEF;15nF,5%,50V,TP,7.1x3.5x13mm,5	
C725	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5m	
C727	2305-000288	C-FILM,MPEF;220nF,5%,50V,TP,7.3x4.8x5.5m	
C728	2401-001530	C-AL;47uF,20%,25V,GP,TP,5x11mm,5mm	
C729	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
C801	2306-000321	C-FILM,MPPF;470nF,5%,250V,TP,-,22.5mm	
C802	2306-000321	C-FILM,MPPF;470nF,5%,250V,TP,-,22.5mm	
C804	2201-000332	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,1	
C805	2201-000332	C-CERAMIC,DISC;2.2nF,20%,250VAC,Y5U,TP,1	
C806	2401-003190	C-AL;470uF,20%,450V,GP,BK,35x45,22.	
C807	2303-000163	C-FILM,PPF;2.2nF,5%,800V,TP,15x13x8.5,7.	
C808	2401-002284	C-AL;33uF,20%,50V,GP,TP,5x11mm,5mm	

Loc	Part-No	Description & Specification	Remarks
C809	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C810	2201-000119	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,	
C811	2201-000144	C-CERAMIC,DISC;100pF,5%,50V,CH,TP,8x3,5	
C812	2201-000990	C-CERAMIC,DISC;4.7nF,20%,400V,Y5U,BK,7x1	
C813	2201-000990	C-CERAMIC,DISC;4.7nF,20%,400V,Y5U,BK,7x1	
C814	2201-000991	C-CERAMIC,DISC;560pF,10%,2KV,Y5P,TP,13x7	
C815	2401-003026	C-AL;330uF,20%,200V,GP,ST,22x35mm,1	
C816	2401-000293	C-AL;100uF,+30-10%,200V,HR,TP,16x25	
C817	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4	
C818	2401-003047	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	
C819	2201-000599	C-CERAMIC,DISC;560pF,10%,500V,Y5P,TP,7x4	
C820	2401-003047	C-AL;2200uF,20%,25V,WT,TP,16x25,7.5	
C821	2301-001168	C-FILM,PPF;1nF,5%,200V,TP,11x5.5x10,5	
C823	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C824	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
C825	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
C826	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
C827	2401-000287	C-AL;100uF,20%,16V,WT,TP,6x11mm,5mm	
C828	2401-000832	C-AL;220uF,20%,25V,GP,TP,8x11.5,5mm	
C829	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C830	2401-000603	C-AL;1UF,20%,50V,GP,TP,5X11MM,5MM	
C831	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
C832	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
C833	2401-001495	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C901	2201-000234	C-CERAMIC,DISC;150pF,5%,50V,CH,TP,9.5x3,	
C902	2301-000108	C-FILM,PEF;1.5nF,5%,50V,TP,6.5x3.0x5.5mm	
C903	2201-000119	C-CERAMIC,DISC;100nF,+80-20%,50V,Y5V,TP,	
C904	2401-000480	C-AL;10uF,20%,50V,GP,TP,5x11,5	
C905	2305-000148	C-FILM,MPEF;100nF,5%,100V,TP,7.5x4.0x5.0	
C906	2305-000148	C-FILM,MPEF;100nF,5%,100V,TP,7.5x4.0x5.0	
C907	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C908	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C909	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C910	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C911	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C912	2401-001333	C-AL;470nF,20%,50V,GP,TP,5x11,5	
C913	2301-000264	C-FILM,PEF;4.7nF,5%,50V,TP,6.5X5.5X3.0X5	
C914	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C915	2401-001495	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
C916	2201-000193	C-CERAMIC,DISC;10pF,0.3pF,50V,CH,TP,5x3,	
C917	2201-000573	C-CERAMIC,DISC;47pF,5%,50V,CH,TP,6.5x3.0	
C918	2301-000192	C-FILM,PEF;1nF,5%,50V,TP,5.3x10mm,5mm	
C919	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C920	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
C921	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
C922	2401-000302	C-AL;100uF,20%,25V,GP,TP,6.3x11,5mm	
C923	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C924	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
C925	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C926	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
C927	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
CN501	3711-002648	CONNECTOR-HEADER;BOX,9P,1R,2.5MM,STRAIGH	
CN502	3711-002645	CONNECTOR-HEADER;BOX,6P,1R,2.5MM,STRAIGH	
CN602	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGH	
CN701	3711-002647	CONNECTOR-HEADER;BOX,8P,1R,2.5MM,STRAIGH	
CN802	AA27-20003M	COIL-DEGAUSSING;-,29",14OHM,70T,L3300,E	
CN904	3711-002644	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGH	
CNW80	AA39-20010B	LEAD-CONNECTOR,ASSY;-,YFH800-01,S,1P,500	
CW901	2503-000156	C-NETWORK;100pFx4,20%,50V	
D208	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D209	0402-000216	DIODE-RECTIFIER;ERC24-06,600V,1.0A,DO-20	
D217	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D301	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	

Loc	Part-No	Description & Specification	Remarks
D401	0402-000493	DIODE-RECTIFIER;1R5GU41,400V,1.5A,DO-15L	
D402	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
D403	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
D404	0402-001012	DIODE-RECTIFIER;FMP-3FU,1500V,5A,TO-3PF	
D405	2001-001142	R-CARBON(S);3Kohm,5%,1/2W,AA,TP,2.4x6.4m	
D406	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D407	0402-000216	DIODE-RECTIFIER;ERC24-06,600V,1.0A,DO-20	
D410	0402-000231	DIODE-RECTIFIER;FMG-G26S,600V,4A,TO-220F	
D602	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500m	
D701	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D801	0402-000213	DIODE-RECTIFIER;ERB12-06,600V,1.0A,DO-41	
D802	0402-001160	DIODE-BRIDGE;D5SB60,600V,2.8A,SIP-4,ST	
D803	0402-001105	DIODE-RECTIFIER;ERB43-04SV1,400V,1.0A,-,	
D804	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D805	0402-000231	DIODE-RECTIFIER;FMG-G26S,600V,4A,TO-220F	
D807	0402-000233	DIODE-RECTIFIER;FML-G12S,200V,5A,-	H/SINK
D808	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
D809	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D810	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D812	0402-000233	DIODE-RECTIFIER;FML-G12S,200V,5A,-	H/SINK
D901	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D902	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D903	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D904	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D905	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D906	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D907	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV801	1405-000152	VARISTOR;560V,2500A,14x8.5mm,TP	
DV802	1405-000152	VARISTOR;560V,2500A,14x8.5mm,TP	
DZ101	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ201	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ204	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ301	0403-000660	DIODE-ZENER;MTZ22A,22V,20.15-21.2V,500mW	
DZ302	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,T	
DZ303	0403-000656	DIODE-ZENER;MTZ15C,15V,14.35-15.09V,500m	
DZ304	0403-001039	DIODE-ZENER;MA2560,56V,52-60V,1W,DO-41,T	
DZ401	0403-000700	DIODE-ZENER;TZP33A,33V,31-35V,1W,DO-41,T	
DZ402	0403-000300	DIODE-ZENER;MTZ8.2B,7.78-8.19V,500mW,DO-	
DZ601	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500m	
DZ602	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500m	
DZ603	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500m	
DZ604	0403-000545	DIODE-ZENER;MTZ24B,24V,22.61-23.77V,500m	
DZ701	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ702	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ703	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ704	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ705	0403-000563	DIODE-ZENER;MTZ9.1B,9.1V,8.57-9.01V,500m	
DZ801	0403-000297	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500m	
DZ802	0403-000294	DIODE-ZENER;MTZ4.7B,4.55-4.80V,500mW,DO-	
DZ803	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500m	
DZ805	1203-001217	IC-POSI.ADJUST REG.;431,TO-92,3P,4.58MIL	
DZ807	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500m	
DZ901	1203-000451	IC-VOLTAGE REGULATOR;33,TO-92,3P,-,PLAST	
DZ902	0403-000295	DIODE-ZENER;MTZ5.1B,5.1V,4.94-5.20V,500m	
DZ903	0403-000297	DIODE-ZENER;MTZ6.2B,6.2V,5.96-6.27V,500m	
DZ904	0403-000299	DIODE-ZENER;MTZ7.5C,7.5V,7.29-7.67V,500m	
DZ905	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500m	
DZ906	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500m	
F801	3601-000281	FUSE-FERRULE;250V,4A,TIME LAG,GLASS,5x20	
F801A	3602-000114	FUSE-HOLDER;-,-,30mohm	
F801B	3602-000114	FUSE-HOLDER;-,-,30mohm	
F802	3601-000120	FUSE-FERRULE;125V,2.5A,QUICK ACTING,GLAS	
F803	3601-001086	FUSE-FERRULE;125V,5A,QUICK-ACTING,CERAMI	

Loc	Part-No	Description & Specification	Remarks
HC101	AA13-20004A	IC-HYBRID;-,PAP102T,SIP,6P,PRE-AMP,TP	
IC201	1204-001193	IC-CHROMA;TDA8375,DIP,56P,-,PLASTIC,8V,9	
IC301	1204-000426	IC-VERTICAL PROCESSO;TDA8350Q/N4,SIP,13P	H/SINK
IC401	1203-000243	IC-POSI.FIXED REG.;7812A,TO-220,3P,-,PLA	
IC601	1201-001064	IC-POWER AMP;7297,ZIP,15P,-,DUAL,32DB,PL	H/SINK
IC701	1204-000473	IC-AUDIO PROCESSOR;TDA9859,DIP,32P,-,PLA	
IC801	1203-001482	IC-PWM CONTROLLER;3S1265R,TO-3P,5P,210,P	H/SINK
IC802	0604-001038	PHOTO-COUPLER;TR,130-260%,200mW,DIP-4,ST	
IC803	1203-001006	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,	H/SINK
IC804	1203-000644	IC-POSI.FIXED REG.;7630,SIP,10P,-,PLASTI	H/SINK
IC901	AA13-30019R	IC-MCU;-,Z8933212PSC-R3719,16BIT,SDIP	
IC902	1103-000156	IC-EEPROM;24C04,512X8BIT,DIP,8P,300MIL,1	
J408	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J413	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J414	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J415	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J416	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J420	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J421	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J425	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
J426	2001-001043	R-CARBON(S);0ohm,5%,1/2W,AA,TP,2.4x6.4mm	
JA701	3722-000195	JACK-SCART;42P,-,SN,BLK,NO	
L101	2701-000189	INDUCTOR-AXIAL;470nH,10%,2.5x3.4mm	
L102	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L103	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L204	2701-000184	INDUCTOR-AXIAL;4.7uH,10%,2.5x3.4mm	
L204	2701-000208	INDUCTOR-AXIAL;6.8uH,10%,2.5x3.4mm	
L205	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L206	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm	
L207	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm	
L208	2701-000142	INDUCTOR-AXIAL;1uH,10%,2.5x3.4mm	
L301	2701-001040	INDUCTOR-AXIAL;10uH,10%,14x4.5mm	
L302	2701-001040	INDUCTOR-AXIAL;10uH,10%,14x4.5mm	
L303	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L304	2701-000178	INDUCTOR-AXIAL;33uH,10%,2.8x7mm	
L401	AA27-40003J	COIL-HORIZ,WIDTH;-,3MH,ER14 20,PI0.35,ST	
L402	AA27-30003J	COIL-LINERITY;-,50uH,DR14x20,PI0.2x10,18	
L404	AA27-40001V	COIL-HORIZ,WIDTH;-,600uH,DR1420,PI0.45,-	
L601	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
L603	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
L701	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L702	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L703	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L704	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L705	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L706	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L707	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L708	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L709	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L801	AA29-30001Q	FILTER-LINE;-,20MH,1.26A,-,BSF3050	
L803	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
L804	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
L805	2701-001032	INDUCTOR-AXIAL;100uH,10%,5x14mm	
L806	2901-000297	FILTER-EMI ON BOARD;-,3A,-,-,3.5x5,TP,-	
L807	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
L901	2701-000189	INDUCTOR-AXIAL;470nH,10%,2.5x3.4mm	
L903	2701-000197	INDUCTOR-AXIAL;5.6uH,10%,2.5x3.4mm	
L904	2701-000211	INDUCTOR-AXIAL;68uH,10%,2.5x3.4mm	
L905	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
L906	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
LD901	AA96-30001B	ASSY-LED,GUIDE;-,AA61-50055A,DL-G5RGA,-	
Q204	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q207	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q209	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
Q401	0502-000242	TR-POWER;KSA614,PNP,25W,TO-220,TP,40-24	H/SINK
Q402	0502-001007	TR-POWER;KSC2073-H2,NPN,25W,TO-220,ST,6	
Q403	0502-000450	TR-POWER;2SD1887YD,NPN,1500V,800V,10A,7	H/SINK
Q701	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q702	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
Q703	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q704	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
Q801	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,	
Q901	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q902	0504-000123	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,T	
Q903	0504-000123	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,T	
Q904	0504-000123	TR-DIGITAL;KSR1010,NPN,300mW,10K,TO-92,T	
Q905	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q906	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
Q907	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
Q908	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
R101	2003-001035	R-METAL OXIDE(S);27ohm,0.05,2W,AF,TP,3.9	
R212	2001-000005	R-CARBON;390ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R214	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R215	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R218	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R219	2001-000309	R-CARBON;110ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R220	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R221	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R222	2001-000440	R-CARBON;1ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R223	2001-000225	R-CARBON;1.2Mohm,5%,1/8W,AA,TP,1.8x3.2m	
R224	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R225	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R226	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R228	2001-001062	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4	
R230	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R233	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R234	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R235	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R236	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R237	2004-001234	R-METAL;75Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R238	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
R239	2001-000387	R-CARBON;16Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R241	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R245	2001-000773	R-CARBON;470Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R246	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R250	2001-000302	R-CARBON;10ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R251	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R252	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R253	2001-000591	R-CARBON;3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R255	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R256	2001-000397	R-CARBON;180Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R257	2004-001234	R-METAL;75Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R258	2004-001914	R-METAL;39Kohm,2%,1/8W,AA,TP,1.8x3.5mm	
R259	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R260	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R261	2001-000331	R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R262	2004-001995	R-METAL;9.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R267	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R301	2004-000869	R-METAL;3Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R302	2004-001370	R-METAL(S);1.3ohm,1%,1/2W,AA,TP,2.4x6.4m	
R303	2004-001370	R-METAL(S);1.3ohm,1%,1/2W,AA,TP,2.4x6.4m	
R304	2004-002019	R-METAL(S);33Kohm,1%,1/2W,AA,TP,2.5x6.5m	
R305	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x	
R306	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x	
R307	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R308	2003-002009	R-METAL OXIDE(S);390ohm,5%,2W,AF,TP,3.9x	

Loc	Part-No	Description & Specification	Remarks
R401	2001-001152	R-CARBON(S);47Kohm,5%,1/2W,AA,TP,2.4x6.4	
R402	2001-000028	R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4	
R403	2001-001155	R-CARBON(S);5.6Kohm,5%,1/2W,AA,TP,2.4x6.	
R404	2008-001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10	
R405	2001-001138	R-CARBON(S);390ohm,5%,1/2W,AA,TP,2.4x6.4	
R406	2003-002008	R-METAL OXIDE(S);18Kohm,5%,2W,AF,TP,3.9x	
R407	2003-002007	R-METAL OXIDE(S);4.7KOHM,5%,2W,AF,TP,3.9	
R408	2008-000179	R-FUSIBLE(S);10ohm,5%,1/2W,AA,TP,2.5x6.5	
R409	2008-000264	R-FUSIBLE(S);1ohm,5%,1W,AF,TP,3.9x10mm	
R410	2001-001114	R-CARBON(S) ;270ohm,5%,1/2W,AA,TP,2.4x	
R411	2001-000022	R-CARBON(S);33ohm,5%,1/2W,AA,TP,2.4x6.4m	
R412	2001-000020	R-CARBON(S);22ohm,5%,1/2W,AA,TP,2.4x6.4m	
R413	2008-000251	R-FUSIBLE(S);0.27ohm,10%,2W,AF,TP,3.9x10	
R414	2008-001033	R-FUSIBLE(S);10ohm,5%,2W,AF,TP,3.9x10mm	
R415	2008-000266	R-FUSIBLE(S);1ohm,5%,2W,AF,TP,3.9x10mm	
R416	2004-001089	R-METAL;560Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R417	2004-001967	R-METAL(S);68Kohm,1%,1/2W,AA,TP,6.5x2.5m	
R418	2004-001967	R-METAL(S);68Kohm,1%,1/2W,AA,TP,6.5x2.5m	
R419	2004-001390	R-METAL(S);1Kohm,2%,1/2W,AA,TP,2.4x6.4mm	
R420	2001-001126	R-CARBON(S);300ohm,5%,1/2W,AA,TP,2.4x6.4	
R421	2001-001037	R-CARBON(S);0.39ohm,5%,1/2W,AA,TP,2.4x6.	
R422	2008-001018	R-FUSIBLE(S);0.47ohm,10%,2W,AF,TP,3.9x10	
R603	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R604	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R605	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R606	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R607	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R701	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R702	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R703	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R704	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R705	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R706	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R707	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R708	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R709	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R710	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
R711	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R712	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R713	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R714	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R715	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R716	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R717	2001-000539	R-CARBON;24Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R718	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R719	2001-000527	R-CARBON;22ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R725	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R726	2001-000591	R-CARBON;3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R727	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R728	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R729	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R730	2001-000591	R-CARBON;3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R731	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R733	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R734	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R735	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R736	2001-000660	R-CARBON;33Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R738	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R739	2001-000812	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R740	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R741	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R742	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R743	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	

Loc	Part-No	Description & Specification	Remarks
R744	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R745	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R746	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R747	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R748	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R749	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R801	2002-001011	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7	
R802	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
R803	2003-000994	R-METAL OXIDE(S);33Kohm,5%,2W,AF,TP,3.9x	
R804	2001-001150	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.	
R805	2001-001150	R-CARBON(S);470Kohm,5%,1/2W,AA,TP,2.4x6.	
R806	2004-002019	R-METAL(S);33Kohm,1%,1/2W,AA,TP,2.5x6.5m	
R807	2004-001373	R-METAL(S);100Kohm,1%,1/2W,AA,TP,2.4x6.4	
R808	2002-001011	R-COMPOSITION;3.3Mohm,10%,1/2W,AA,TP,3.7	
R809	2002-001013	R-COMPOSITION;4.7Mohm,10%,1/2W,AA,TP,3.7	
R810	2003-000782	R-METAL OXIDE(S);7.5Kohm,5%,2W,AA,TP,4x1	
R811	2003-000462	R-METAL OXIDE(S);10Kohm,5%,2W,AA,TP,4x12	
R812	2006-001029	R-CEMENT;3.3OHM,5%,5W,CJ,TP,10.5X14X27M	
R813	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R814	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R815	2004-001891	R-METAL(S);133Kohm,1%,1/2W,AA,TP,2.5x6.5	
R816	2004-001983	R-METAL;2.49Kohm,1%,1/2W,AA,TP,2.4x6.4	
R817	2001-000117	R-CARBON(S);68ohm,5%,1/2W,AA,TP,2.4x6.4m	
R818	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R819	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R820	2008-000299	R-FUSIBLE(S);47ohm,5%,2W,AF,TP,3.9x10mm	
R822	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R823	2006-001029	R-CEMENT;3.3OHM,5%,5W,CJ,TP,10.5X14X27M	
R824	2001-001125	R-CARBON(S);300Kohm,5%,1/2W,AA,TP,2.4x6.	
R901	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R902	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R903	2001-000066	R-CARBON(S);10Kohm,5%,1/2W,AA,TP,2.4x6.4	
R904	2004-000218	R-METAL;10Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R905	2004-000218	R-METAL;10Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R906	2004-000218	R-METAL;10Kohm,1%,1/8W,AA,TP,1.8x3.2mm	
R908	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R909	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R910	2004-001193	R-METAL;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R911	2001-000214	R-CARBON;1.1Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R912	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R913	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R914	2001-000472	R-CARBON;2.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R916	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R917	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R918	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R919	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R920	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R921	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R922	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R923	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R924	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R925	2004-001193	R-METAL;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R926	2004-001193	R-METAL;680ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R927	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R928	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R929	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R930	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R931	2001-001111	R-CARBON(S);240ohm,5%,1/2W,AA,TP,2.4x6.4	
R932	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R933	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R934	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R935	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R936	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	

Loc	Part-No	Description & Specification	Remarks
R937	2001-001062	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4	
R938	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R939	2001-000786	R-CARBON;47Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R940	2001-001062	R-CARBON(S);10Mohm,5%,1/2W,AA,TP,2.4x6.4	
R942	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
R943	2001-000793	R-CARBON;47ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R944	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R945	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R946	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R948	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R949	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R951	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R952	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R953	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R954	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R955	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RL801	3501-001040	RELAY-POWER;12VDC,500mW,10A,1FormA,15mS,	
RM901	AA59-60003S	MODULE-REMOCON;-,ORC-50VFM/SR-12VM,38KHz	
RP802	1404-001045	THERMISTOR-NTC;4.7OHM,15%,2900K,35.0MW,T	
RP803	1404-001087	THERMISTOR-PTC;7ohm,30%,220V,270V,19A,-,	
SF102	2904-001063	FILTER-SAW AV;38.9MHz,SIP5K,TP,17dB,PAL-	
SW801	3403-001020	SWITCH-PUSH;250V,5A,DPST,OFF-ON-OFF	
SW901	3404-000244	SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SP	
SW902	3404-000244	SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SP	
SW903	3404-000244	SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SP	
SW904	3404-000244	SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SP	
SW905	3404-000244	SWITCH-TACT;15V,20mA,90-170gf,7.5x7mm,SP	
T201	AA26-10005G	TRANS-IF;-,7MG,VIF,150nH,7mm,8pF,74.2MH	
T401	AA26-50001R	TRANS-HORIZ DRIVE;-,80MH,580UH,4UH,G11A	
T444	AA26-30005C	TRANS-FLYBACK;-,FTH-29A013(S),29",130V	
T801	AA26-20007R	TRANS-SWITCHING;-,90V~260VAC,135V/15V/12	
TU101	AA40-10003K	TUNER-V/S;TELE1-002,PAL-B/G,-,105CH	
X202	2801-003332	CRYSTAL-UNIT;4.433619MHz,30ppm,28-AAM,72	
X203	2801-000231	CRYSTAL-UNIT;3.579545MHz,30ppm,28-AAM,84	
X901	2801-003224	CRYSTAL-UNIT;32.768KHZ,20PPM,28-AAY,12.5	
Z208	2903-000199	FILTER-CERAMIC;TR,6.5MHz,70KHz,-,-,TP,-	
Z209	2903-000181	FILTER-CERAMIC;TR,5.5MHz,-,-,-,TP,TPS5.5	
Z210	2903-000181	FILTER-CERAMIC;TR,5.5MHz,-,-,-,TP,TPS5.5	
		ASSY-ACCESSORY	
RCA/C	AA39-40001B	CABLE-RCA;-,RCA,1500mm,0.12/10,RED/WHT/Y	
USER/I	AA68-11204A	MANUAL-USERS;SCT57B,RUSSIA,TM51,B5,W/P 1	
		ASSY-CRT	
CRT	AA03-10029B	CRT-COLOR;-,A70QBZ791X001(B),+500mG,29",	
		ASSY-PCB,CRT	
*	AA95-20009S	ASSY-PCB,CRT;-,SCT57A,30",-,-	
C501	2201-000247	C-CERAMIC,DISC;15pF,5%,50V,CH,TP,5x3,5	
C502	2201-000247	C-CERAMIC,DISC;15pF,5%,50V,CH,TP,5x3,5	
C503	2201-000247	C-CERAMIC,DISC;15pF,5%,50V,CH,TP,5x3,5	
C504	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C505	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C506	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
C507	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C508	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C509	2301-000224	C-FILM,PEF;22nF,5%,50V,TP,7.4x3.9x13mm	
C510	2305-000011	C-FILM,MPEF;470nF,5%,250V,TP,21.5X13.0X7	
C511	2305-000011	C-FILM,MPEF;470nF,5%,250V,TP,21.5X13.0X7	

Loc	Part-No	Description & Specification	Remarks
C512	2305-000011	C-FILM,MPEF;470nF,5%,250V,TP,21.5X13.0X7	
C513	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4	
C514	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4	
C515	2201-000556	C-CERAMIC,DISC;470pF,10%,500V,Y5P,TP,7x4	
C517	2201-000158	C-CERAMIC,DISC;10nF,+80-20%,3KV,Y5V,BK,-	
C518	2401-000430	C-AL;10uF,20%,250V,GP,TP,10x16mm,5m	
C519	2401-000910	C-AL;22uF,20%,16V,GP,TP,5x5mm,5mm	
C522	2401-001177	C-AL;33uF,20%,25V,GP,TP,6.3x11,5mm	
C527	2401-001527	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m	
C528	2401-001527	C-AL;47uF,20%,250V,HR,TP,13x25mm,5m	
C529	2401-000832	C-AL;220uF,20%,25V,GP,TP,8x11.5,5mm	
CN07A	3711-002648	CONNECTOR-HEADER;BOX,9P,1R,2.5MM,STRAIGH	
CN08A	3711-002645	CONNECTOR-HEADER;BOX,6P,1R,2.5MM,STRAIGH	
CNV01	3711-002642	CONNECTOR-HEADER;BOX,3P,1R,2.5MM,STRAIGH	
CNW07	AA39-20031D	LEAD-CONNECTOR,ASSY;-,67096-009,S,9P,500	
CNW08	AA39-20027B	LEAD-CONNECTOR,ASSY;-,67096-006,S,6P,400	
CV01	2401-000832	C-AL;220uF,20%,25V,GP,TP,8x11.5,5mm	
CV02	2301-000380	C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm	
CV03	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
CV04	2201-000611	56pF,5%,50V,CH,TP,6.5x3,5	
CV05	2301-000232	C-FILM,PEF;3.3nF,5%,50V,TP,8.1x4.5x13mm,	
CV06	2201-000144	C-CERAMIC,DISC;100pF,5%,50V,CH,TP,8x3,5	
CV07	2201-000606	C-CERAMIC,DISC;56pF,10%,50V,RH,TP,6.5x3,	
CV08	2201-000980	C-CERAMIC,DISC;30pF,5%,50V,CH,TP,5.0x3.0	
CV09	2201-000441	C-CERAMIC,DISC;3.3nF,10%,500V,Y5P,TP,10x	
CV10	2401-000430	C-AL;10uF,20%,250V,GP,TP,10x16mm,5m	
CV11	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
CV12	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
CV15	2201-000604	C-CERAMIC,DISC;56pF,+100-0%,500V,SL,TP,7	
CV16	2401-000395	C-AL;10uF,20%,160V,GP,TP,10x12.5mm,	
CV17	2201-000441	C-CERAMIC,DISC;3.3nF,10%,500V,Y5P,TP,10x	
CV18	2201-000441	C-CERAMIC,DISC;3.3nF,10%,500V,Y5P,TP,10x	
CV19	2401-000404	C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm	
CV20	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
CV21	2401-001495	C-AL;47uF,20%,16V,GP,5x11mm,5mm,TP	
D501	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
D503	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D504	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D505	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D506	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D507	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D508	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
D511	0402-000132	DIODE-RECTIFIER;1N4004,400V,1A,DO-41,TP	
D512	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV01	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV02	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV03	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
DV04	0402-000546	DIODE-RECTIFIER;TVR10G,400V,1.0A,DO-41	
DV05	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV06	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV07	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DV08	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DZ501	0403-000654	DIODE-ZENER;MTZ12B,12V,11.44-12.03V,500m	
DZ502	0403-000654	DIODE-ZENER;MTZ12B,12V,11.44-12.03V,500m	
DZ503	0403-000654	DIODE-ZENER;MTZ12B,12V,11.44-12.03V,500m	
DZ504	0403-000654	DIODE-ZENER;MTZ12B,12V,11.44-12.03V,500m	
DZ505	0403-000654	DIODE-ZENER;MTZ12B,12V,11.44-12.03V,500m	
DZ506	0403-000654	DIODE-ZENER;MTZ12B,12V,11.44-12.03V,500m	
DZ507	0403-000655	DIODE-ZENER;MTZ13A,13V,12.11-12.75V,500m	
IC501	1201-000539	IC-VIDEO AMP;6101,ZIP,9P,-,SINGLE,-,PLAS	
IC502	1201-000539	IC-VIDEO AMP;6101,ZIP,9P,-,SINGLE,-,PLAS	
IC503	1201-000539	IC-VIDEO AMP;6101,ZIP,9P,-,SINGLE,-,PLAS	
IC504	AA13-20002S	IC-HYBRID;-,SPK101,SIP,6P,SPOT KILLER	

Loc	Part-No	Description & Specification	Remarks
LV01	4711-000246	DELAY LINE;330ns/200KHz,-,34x9x2mm,BK	
LV02	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
LV03	AA27-10001E	COIL-CHOKE;-,1.0UH,K,25,2100A,T,SP0408-1	
LV04	2702-000158	INDUCTOR-RADIAL;39uH,10%,6x6.4mm	
MOD	2001-000995	R-CARBON ;820 OHM,5%,1\8W,AA,T	
QV01	0501-000245	TR-SMALL SIGNAL;BC548C,NPN,500mW,TO-92,T	
QV02	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
QV03	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QV04	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
QV05	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QV06	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QV07	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,	
QV08	0502-000131	TR-POWER;2SA1011-D,PNP,1.2W,TO-220,-,60	H/SINK
QV09	0502-000153	TR-POWER;2SC2344-D,NPN,1.2W,TO-220,-,60	H/SINK
QV10	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QV11	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
R501	2001-000577	R-CARBON ;2KOHM,5%,1/8W,AA,TP,	
R502	2001-000577	R-CARBON ;2KOHM,5%,1/8W,AA,TP,	
R503	2001-000577	R-CARBON ;2KOHM,5%,1/8W,AA,TP,	
R510	2001-001070	R-CARBON(S);120ohm,5%,1/2W,AA,TP,2.4x6.4	
R511	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R512	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R513	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R514	2001-000085	R-CARBON(S);100Kohm,5%,1/2W,AA,TP,2.4x6.	
R515	2001-000085	R-CARBON(S);100Kohm,5%,1/2W,AA,TP,2.4x6.	
R516	2001-000085	R-CARBON(S);100Kohm,5%,1/2W,AA,TP,2.4x6.	
R517	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R518	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R519	2001-000515	R-CARBON;220ohm,5%,1/8W,AA,TP,1.8x3.2mm	
R520	2001-001086	R-CARBON(S);18Kohm,5%,1/2W,AA,TP,2.4x6.4	
R521	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7	
R522	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7	
R523	2002-001009	R-COMPOSITION;2.7Kohm,10%,1/2W,AA,TP,3.7	
R525	2002-001006	R-COMPOSITION;4.7KOHM,10%,1/2W,AA,TP,3.7	
R526	2008-000278	R-FUSIBLE(S);82ohm,5%,2W,AA,TP,3.9x10mm	
R527	2008-000256	R-FUSIBLE(S);1.5ohm,5%,2W,AA,TP,3.9x10mm	
R529	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
R530	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV02	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV03	2001-001178	R-CARBON(S);680ohm,5%,1/2W,AA,TP,2.4x6.4	
RV04	2001-000362	R-CARBON;150ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV05	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV06	2001-000331	R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV07	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV08	2001-000522	R-CARBON;22Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV09	2001-000577	R-CARBON ;2KOHM,5%,1/8W,AA,TP,	
RV10	2001-000449	R-CARBON;2.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV11	2008-000275	R-FUSIBLE(S);560ohm,0.05,2W,AA,TP,3.9x10	
RV12	2001-000331	R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV13	2001-000331	R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV14	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV15	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV16	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV17	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV18	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RV19	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV20	2003-001047	R-METAL OXIDE(S);68ohm,5%,2W,AF,TP,3.9x1	
RV21	2001-000273	R-CARBON;100Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV22	2001-001045	R-CARBON(S);1.2Kohm,5%,1/2W,AA,TP,2.4x6.	
RV23	2001-001050	R-CARBON(S);1.5Kohm,5%,1/2W,AA,TP,2.4x6.	
RV24	2001-001179	R-CARBON(S);68Kohm,5%,1/2W,AA,TP,2.4x6.4	
RV25	2001-001179	R-CARBON(S);68Kohm,5%,1/2W,AA,TP,2.4x6.4	
RV26	2001-001050	R-CARBON(S);1.5Kohm,5%,1/2W,AA,TP,2.4x6.	
RV27	2001-001045	R-CARBON(S);1.2Kohm,5%,1/2W,AA,TP,2.4x6.	
RV28	2003-000744	R-METAL OXIDE(S);56ohm,5%,2W,AA,TP,4x12m	
RV29	2001-001152	R-CARBON(S);47Kohm,5%,1/2W,AA,TP,2.4x6.4	
RV30	2003-000744	R-METAL OXIDE(S);56ohm,5%,2W,AA,TP,4x12m	
RV31	2001-001100	R-CARBON(S);2.7ohm,5%,1/2W,AA,TP,2.4x6.4	
RV32	2001-001100	R-CARBON(S);2.7ohm,5%,1/2W,AA,TP,2.4x6.4	
RV33	2003-000578	R-METAL OXIDE(S);220ohm,5%,2W,AA,TP,4x12	
RV34	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV35	2001-000258	R-CARBON;1.8Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV36	2001-000221	R-CARBON;1.2Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RV37	2001-000534	R-CARBON;240ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV38	2001-000577	R-CARBON ;2KOHM,5%,1/8W,AA,TP,	
RV39	2001-000331	R-CARBON;12Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RV40	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RV41	2008-000294	R-FUSIBLE(S);33ohm,5%,2W,AF,TP,3.9x10mm	
RV42	2001-000995	R-CARBON ;820 OHM,5%,1\8W,AA,T	
RV43	2001-000554	R-CARBON;270OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RV44	2003-001047	R-METAL OXIDE(S);68ohm,5%,2W,AF,TP,3.9x1	
V999	3704-000114	SOCKET-CRT;14P,29.1,35.5,SN,ISH09S/BK	
VL03	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	
VL04	3301-000287	CORE-FERRITE BEAD;AA,3.5x1x6mm,1500,2400	

ASSY-SOUND

*	AA95-40011C	ASSY-SOUND;-,CS,SCT57B,A2,ST,-	
CA101	2401-000254	C-AL;100uF,20%,10V,LL,TP,8x11.5,5mm	
CA102	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
CA103	2401-002235	C-AL;10uF,20%,16V,GP,TP,5x11mm,5mm	
CA104	2401-002042	C-AL;220uF,20%,10V,GP,TP,6.3x11,5mm	
CA105	2301-000148	C-FILM,PEF;10nF,5%,100V,TP,7x3.2x7mm,5mm	
CA106	2301-000235	C-FILM,PEF;3.9nF,5%,50V,TP,6.5x3.0x5.5mm	
CA107	2301-000530	C-FILM,PEF;100nF,5%,100V,TP,11.5x12.5x6.	
CA108	2301-000201	C-FILM,PEF;2.2nF,5%,50V,TP,7.4x3.9x13mm,	
CA109	2401-000660	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
CA110	2401-000660	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
CA111	2401-000416	C-AL;10uF,20%,16V,GP,TP,5x11,5mm	
CA112	2401-000416	C-AL;10uF,20%,16V,GP,TP,5x11,5mm	
CA113	2301-000380	C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm	
CA114	2301-000380	C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm	
CA115	2401-000667	C-AL;2.2uF,20%,50V,WT,TP,5*11,5mm	
CA116	2401-000667	C-AL;2.2uF,20%,50V,WT,TP,5*11,5mm	
CA117	2401-000667	C-AL;2.2uF,20%,50V,WT,TP,5*11,5mm	
CA118	2301-000380	C-FILM,PEF;10nF,5%,50V,TP,6.5x3mm,5mm	
CA119	2401-000440	C-AL;10UF,20%,25V,GP,TP,5X11MM,5MM	
CNA01	3711-002704	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL	
CNA02	3711-002704	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL	
HA001	AA61-10068A	BRACKET-PCB;-,M2160,SPTE,T0.3,-,-,-	
ICA01	1204-000515	IC-SOUND PROCESSOR;TDA9840/V2,DIP,20P,32	
ICA02	1204-001294	IC-DEMODULATOR;TDA9820,DIP,16P,300MIL,PL	
LA101	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
LA102	2702-000131	INDUCTOR-RADIAL;2.2mH,5%,6.2x7.4mm	
RA101	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RA102	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RA103	2001-000734	R-CARBON;4.7Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RA104	2001-000591	R-CARBON;3.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RA105	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RA108	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RA109	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RA110	2001-000832	R-CARBON;510ohm,5%,1/8W,AA,TP,1.8x3.2mm	
XA101	2801-000125	CRYSTAL-UNIT;10MHZ,20PPM,28-AAM,32PF,30O	
ZA101	2903-000185	FILTER-CERAMIC;BP,5.5MHz,+-75KHz,6dB,-,T	
ZA102	2903-000185	FILTER-CERAMIC;BP,5.5MHz,+-75KHz,6dB,-,T	

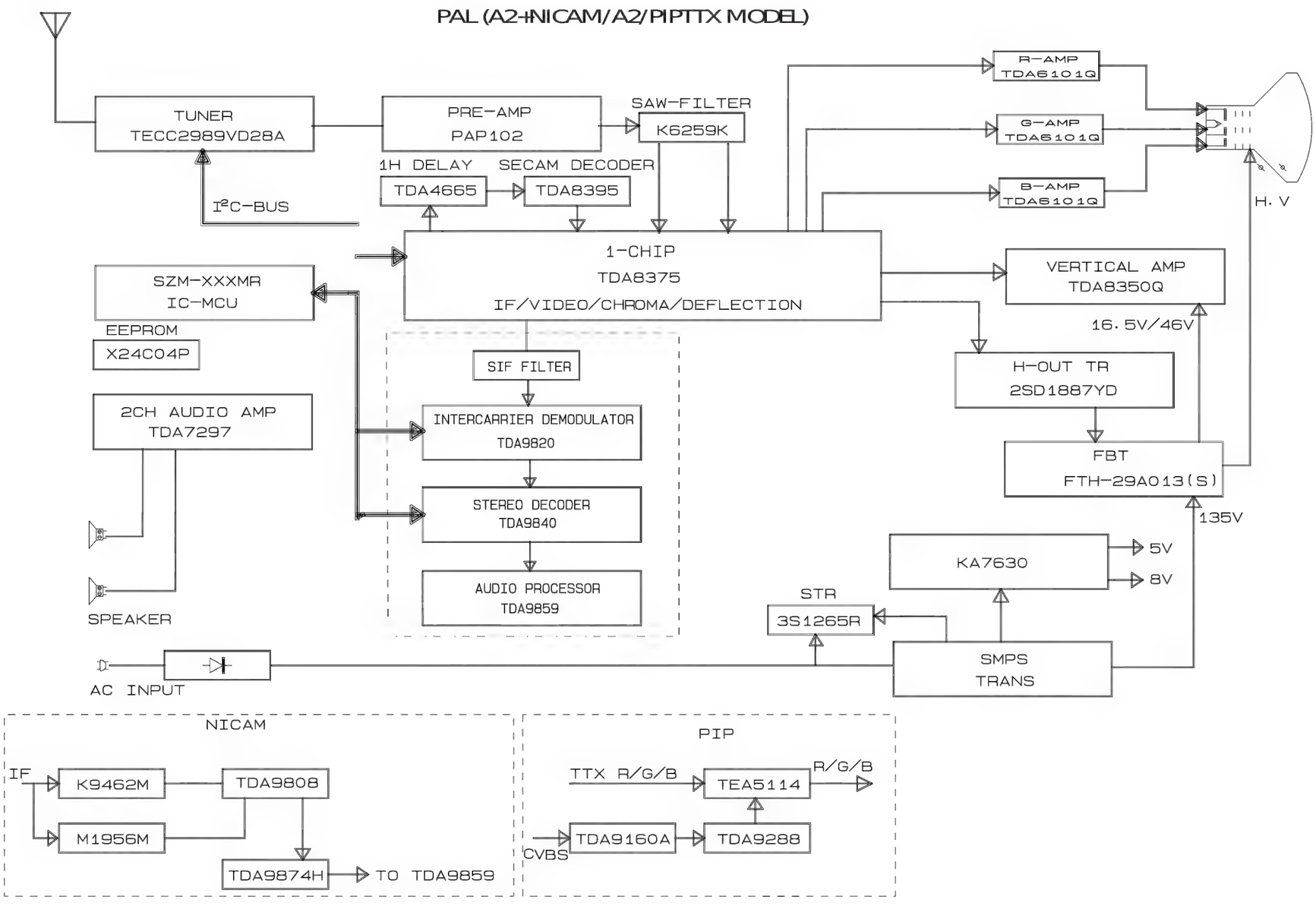
Loc	Part-No	Description & Specification	Remarks
ZA103	2903-000202	FILTER-CERAMIC;BP,6.5MHz,+-80KHz,6dB,-,T	
ZA104	2903-000133	FILTER-CERAMIC;BP,4.5MHz,+-35KHz,9dB,-,T	
ZA105	2903-000133	FILTER-CERAMIC;BP,4.5MHz,+-35KHz,9dB,-,T	
ZA108	2903-000189	FILTER-CERAMIC;BP,5.74MHz,+-50KHz,8dB,-,	
ZA109	2903-000189	FILTER-CERAMIC;BP,5.74MHz,+-50KHz,8dB,-,	
ZA110	2903-000277	FILTER-CERAMIC;BP,6.0MHz,60KHz,6.0dB,-,T	
ZA111	2903-000277	FILTER-CERAMIC;BP,6.0MHz,60KHz,6.0dB,-,T	
		ASSY-PCB,A/V SIDE	
*	AA95-90027W	ASSY-PCB,A/V SIDE;-,761B,SCT57A,PAL,-,-	
CA02	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,1.	
CA03	2202-000121	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,1.	
CA04	2202-000720	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.	
CA05	2202-000720	C-CERAMIC,MLC-AXIAL;8.2NF,20%,16V,Y5R,3.	
CA06	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
CA07	2401-001840	C-AL;100uF,20%,16V,GP,TP,6.3x11,5mm	
CN05A	AA39-20069F	LEAD CONNECTOR-ASSY;-,67096-005,YBNH025-	
CN06A	AA39-20499B	LEAD CONNECTOR-ASSY;-,YBNH025-04,SMP025-	
CNA01	AA39-20068G	LEAD CONNECTOR-ASSY;-,YBNH025-08,67096-0	
JE01	3722-000143	JACK-PHONE;1P(VER),3.4mm,AG,BLK,NO	
JR01	3722-001031	JACK-RCA;3P,3.6MM,#18,AU	
LA02	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM	
LA03	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
LA04	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
LA05	2701-000177	INDUCTOR-AXIAL;33UH,10%,2.5X3.4MM	
RA01	2001-000028	R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4	
RA02	2001-000028	R-CARBON(S);100ohm,5%,1/2W,AA,TP,2.4x6.4	
		ASSY-PCB,SECAM	
*	AA95-90027X	ASSY-PCB,SECAM;-,761B,SCT57A,PAL,-,-	
CNS01	3711-002707	CONNECTOR-HEADER;NOWALL,9P,1R,2.5mm,ANGL	
CS01	2401-001530	C-AL;47uF,20%,25V,GP,TP,5x11mm,5mm	
CS02	2401-001530	C-AL;47uF,20%,25V,GP,TP,5x11mm,5mm	
CS03	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
CS04	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
CS05	2202-002037	C-CERAMIC,MLC-AXIAL;100nF,80-20%,50V,Y5P	
CS06	2305-000289	C-FILM,MPEF;220nF,5%,63V,TP,-,5mm	
CS07	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
CS08	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
CS09	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
CS11	2306-000122	C-FILM,MPPF;100nF,5%,50V,TP,7.3x4.0x5.0m	
DZS01	0403-000295	DIODE-ZENER;MTZ5.1B,5.1V,4.94-5.20V,500m	
ICS01	1209-000214	IC-DELAY LINE;TDA4665,DIP,16P,300MIL,PLA	
ICS02	1204-000524	IC-DECODER;TDA8395P/N1,DIP,16P,-,PLASTIC	
JS04	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
JS05	2202-000796	C-CERAMIC,MLC-AXIAL;UP050 B102KB INF,10%	
QS01	0501-000283	TR-SMALL SIGNAL;KSA539,PNP,400mW,TO-92,T	
QS02	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
RS01	2001-000613	R-CARBON ;3.9K OHM,5%,1/8,AA,T	
RS02	2001-000241	R-CARBON;1.5Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RS03	2001-001077	R-CARBON(S);150ohm,5%,1/2W,AA,TP,2.4x6.4	
RS04	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RS05	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
		ASSY-PCB,TTX	
*	AA95-90031P	ASSY-PCB,TTX;-,CK765D,SCT57C,SAA5281P/R,	
CNP01	3711-002704	CONNECTOR-HEADER;NOWALL,6P,1R,2.5mm,ANGL	

Loc	Part-No	Description & Specification	Remarks
CNT01	3711-002702	CONNECTOR-HEADER;NOWALL,4P,1R,2.5mm,ANGL	
CNT02	3711-002703	CONNECTOR-HEADER;NOWALL,5P,1R,2.5mm,ANGL	
CNT03	3711-002705	CONNECTOR-HEADER;NOWALL,7P,1R,2.5mm,ANGL	
CT01	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
CT02	2401-000660	C-AL;2.2uF,20%,50V,GP,TP,5x11mm,5mm	
CT03	2401-000242	C-AL;100uF,20%,10V,GP,TP,6x11,5mm	
CT04	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
CT05	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
CT06	2401-000242	C-AL;100uF,20%,10V,GP,TP,6x11,5mm	
CT07	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
CT08	2201-000961	C-CERAMIC,DISC;10pF,0.5pF,50V,RH,TP,5x3m	
CT09	2201-000247	C-CERAMIC,DISC;15pF,5%,50V,CH,TP,5x3,5	
CT10	2203-000444	C-CERAMIC,CHIP;1nF,10%,50V,X7R,TP,2012,-	
CT11	2203-000192	C-CERAMIC,CHIP;100nF,+80-20%,50V,Y5V,TP,	
CT12	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
CT13	2305-000665	C-FILM,MPEF;100nF,5%,63V,TP,7.5x4.0x5.0m	
CT15	2401-000404	C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm	
CT16	2401-000404	C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm	
CT17	2401-000404	C-AL;10uF,20%,16V,BP,TP,6x11mm,5mm	
DT01	0401-000005	DIODE-SWITCHING;1N4148,75V,300mA,DO-35,T	
DZT01	0403-000296	DIODE-ZENER;MTZ5.6B,5.6V,5.45-5.73V,500m	
H001	AA61-10068A	BRACKET-PCB;-,M2160,SPTE,T0.3,-,-,-	
ICT01	1204-000455	IC-DECODER;SAA5281 P/R,DIP,48P,-,PLASTIC	
ICT02	AA13-30002S	IC-MCU;-,PCF84C81AP/145,8bit,DIP,-,28	
ICT03	1103-000128	IC-EEPROM;24C02,256*8BIT,DIP,8P,300MIL,1	
ICT04	1203-000641	IC-RESET;7442,TO-92,3P,-,PLASTIC,-0.3/7	
JT17	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
JT18	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
JT19	2007-000029	R-CHIP;0ohm,5%,1/10W,DA,TP,2012	
LT01	2701-000170	INDUCTOR-AXIAL;3.9uH,10%,2.8x7mm	
QT01	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QT02	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QT03	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QT04	0501-000389	TR-SMALL SIGNAL;KSC815,NPN,400mW,TO-92,T	
QT05	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
QT06	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
QT07	0501-000280	TR-SMALL SIGNAL;KSA1182,PNP,150mW,SOT-23	
RT01	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RT02	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RT03	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RT04	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RT05	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RT06	2007-000282	R-CHIP;100Kohm,5%,1/10W,DA,TP,2012	
RT07	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT08	2001-000281	R-CARBON;100ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT09	2007-000686	R-CHIP;3.3Kohm,5%,1/10W,DA,TP,2012	
RT10	2007-000308	R-CHIP;10ohm,5%,1/10W,DA,TP,2012	
RT11	2001-000563	R-CARBON;27Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT12	2001-000290	R-CARBON;10Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT13	2001-000723	R-CARBON;4.3Kohm,5%,1/8W,AA,TP,1.8x3.2m	
RT14	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RT15	2007-000290	R-CHIP;100ohm,5%,1/10W,DA,TP,2012	
RT16	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT17	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT18	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT19	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT20	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT21	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT22	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT23	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT24	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT25	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT26	2001-000857	R-CARBON;560ohm,5%,1/8W,AA,TP,1.8x3.2mm	

Loc	Part-No	Description & Specification	Remarks
RT27	2001-000628	R-CARBON;300OHM,5%,1/8W,AA,TP,1.8X3.2MM	
RT28	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RT29	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RT30	2007-000468	R-CHIP;1Kohm,5%,1/10W,DA,TP,2012	
RT31	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT32	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT33	2001-000969	R-CARBON;75ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT34	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RT35	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RT36	2007-000300	R-CHIP;10Kohm,5%,1/10W,DA,TP,2012	
RT37	2001-000780	R-CARBON;470ohm,5%,1/8W,AA,TP,1.8x3.2mm	
RT38	2001-000429	R-CARBON;1Kohm,5%,1/8W,AA,TP,1.8x3.2mm	
XT01	2801-001118	CRYSTAL-UNIT;9.8304MHZ,50PPM,28-AAM,30PF	
XT02	2801-000214	CRYSTAL-UNIT;27MHz,40ppm,28-AAM,S,40ohm,	
		ASSY-POWER,CORD	
*	AA96-20109C	ASSY-POWER,CORD;-,CP2/NO(4.0),H/C300,KKP	
P-COR	AA39-10006X	POWER-CORD;-,KKP419C,KLCE-2F,2.286MT,3P,	
HOLD	AA61-20284A	HOLDER;-,P-CORD,PP,VO,BLK,KE-002	
		REMOCON	
*	AA59-10075K	REMOCON;-,TM48,SZM157ETX,43,L/GRY,SS	
		ASSY-CABINET	
*	AA91-10367E	ASSY-CABINET,FRONT;-,CK765DWTR,DG703P BW	
CB+21	6002-000512	SCREW-TAPPING;RH,+,2,M4,L12,ZPC(BLK),SWR	S.N.A
AV+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWR	S.N.A
IND+CI	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWR	S.N.A
KC+CF	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWR	S.N.A
SPK+C	6002-000514	SCREW-TAPPING;RH,+,2,M4,L15,ZPC(BLK),SWR	S.N.A
CRT+C	AA60-10050R	SCREW-ASSY;WC,HH,+,M5,L31.5,SWRCH18A,ZPC	S.N.A
CB+CF	AA60-10050T	SCREW-TAPPING;RH,+,2S,M4,L20,ZPC(BLK),SW	S.N.A
BOSS-\	AA61-40010A	BOSS-WING;-,HIPS,HB,NTR,-,-	S.N.A
STOPP	AA61-40053A	STOPPER-PCB;ALL MODEL,HIPS HB,WHT,HB,-,-	S.N.A
KNOPC	AA61-60003N	SPRING-CS;-,SUS304,0.6,OD11.2,H27,N9,H27	S.N.A
CABBA	AA63-60001X	SPACER-FELT;FELT,T0.5,BLK,330X15,-,-	S.N.A
KNOPC	AA64-10740D	KNOB-POWER;-,765D,G3676 NO-SILK,ABS,HB,H	
KNOCC	AA64-10741A	KNOB-CONTROL;-,765D,G3676,ABS,HB,HI-GRY	
FRONT	AA64-31160F	CABINET-FRONT;-,CK765DWTR,DG703P BWT ML,	
BACK	AA64-31180C	CABINET-BACK;-,765D,-,HIPS,V2,GRAY,-,-	
WIN-RI	AA64-40479A	WINDOW-REMOCON;-,765D,-,ABS,HB,-,CLR LG4	
INDLEI	AA64-40480A	INDICATOR-LED;-,765D,-,ABS,-,CLR,-	
IN-BA	AA64-60052C	INLAY-BACK;-,SCT57A,C SCART(2),PS,T0.5,B	S.N.A
IN-AV	AA64-60423K	INLAY-AV;761B,SCT57A L/GRY,PS,T0.3,BLK,	S.N.A
BADGE	AA64-70117A	BADGE-BRAND;AL,SS,FLAT,L65,SILVER,-,-	S.N.A
C-D,CC	AA65-30004A	CLAMP-D,COIL;NYLON-66,V0,WHT,25,29INCH,-	S.N.A
C-COR	AA65-30008A	CLAMP-CORD;PE,HB,BLK,-,-,-	S.N.A
C-WIRI	AA65-30105A	CLAMP-WIRE;NYLON 66,V2,NTR,15MM,ALL MODE	S.N.A
		ASSY-SPEAKER	
*	AA96-10145A	ASSY-SPEAKER;-,8R,5W,000280x4,YB/R,RB/L,	
SPK	3001-000280	SPEAKER;5W,16ohm,90dB,150Hz	
LEAD/C	AA39-20583A	LEAD CONNECTOR-ASSY;-,YSH025-04,REC,REC,	

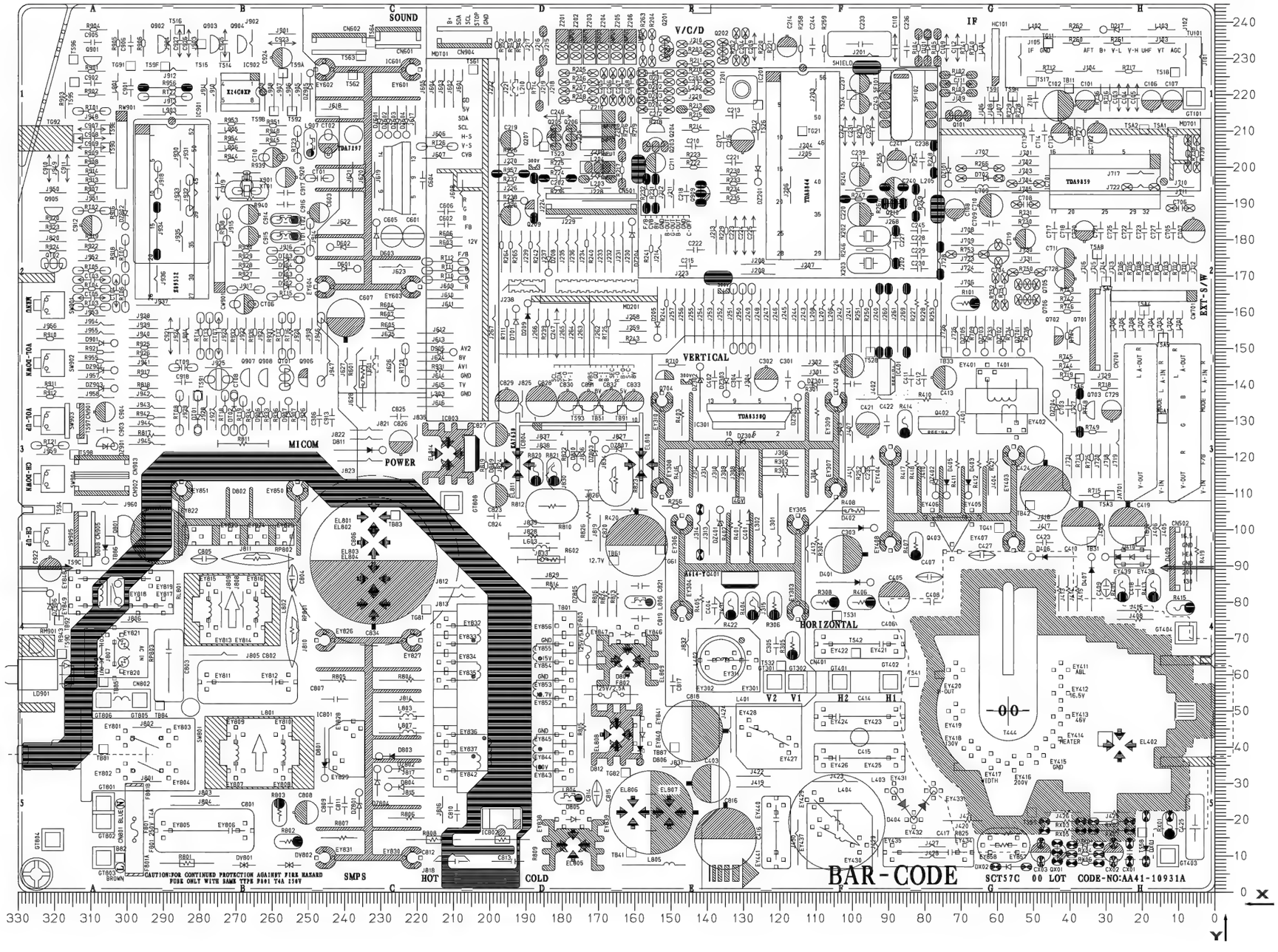
Loc	Part-No	Description & Specification	Remarks

8. Block Diagram



9. PCB Layout

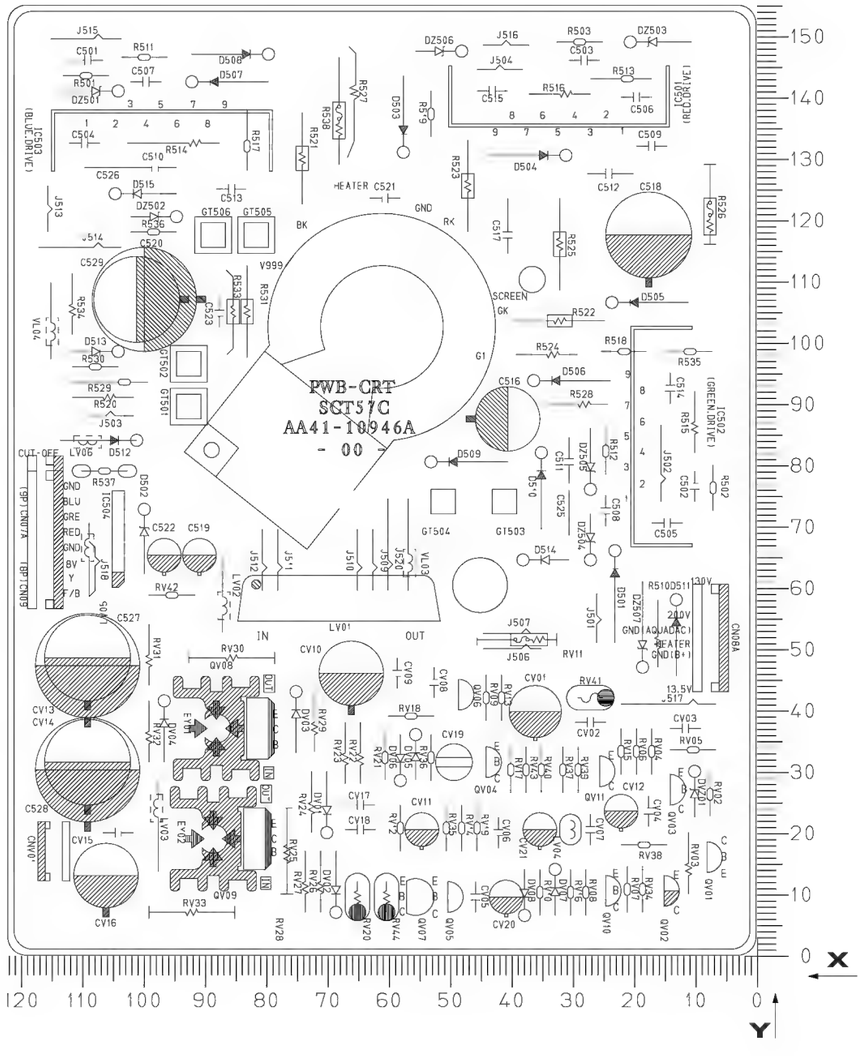
9-1 PCB-MAIN



Loc. No.	X	Y
DIODE		
D101	79	236
D201	158	226
D202	158	223
D203	158	221
D204	158	218
D205	153	153
D208	183	171
D209	189	162
D217	30	238
D401	95	85
D402	94	100
D403	68	109
D404	88	28
D405	74	109
D406	50	92
D407	34	92
D409	30	92
D410	25	92
D601	236	172
D602	244	178
D603	231	184
D701	192	161
D702	59	197
D801	245	31
D802	253	111
D803	230	37
D804	228	29
D805	177	13
D806	158	36
D807	162	64
D808	306	91
D809	198	114
D810	176	117
D811	229	122
D812	165	43
D901	303	151
D902	252	167
D903	252	169
D904	252	172
D905	210	149
D906	263	135
D907	255	135
DT01	280	127
DT02	270	137
DT03	252	174
DV801	264	7
DV802	251	7
DX01	19	8
DX02	60	7
DZ101	73	195
DZ201	126	196
DZ204	160	185
DZ301	114	140
DZ302	142	145
DZ303	134	137
DZ304	134	124
DZ305	115	136
DZ401	136	105
DZ402	77	109
DZ601	230	209
DZ602	228	209
DZ603	225	209
DZ604	223	209
DZ701	53	149
DZ702	58	149

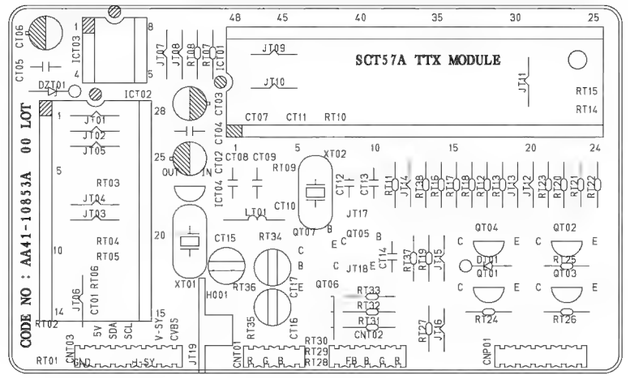
Loc. No.	X	Y
DZ703	63	149
DZ704	43	137
DZ705	68	149
DZ801	236	27
DZ802	228	34
DZ803	171	124
DZ804	231	34
DZ805	173	85
DZ807	168	122
DZ901	303	123
DZ902	300	183
DZ903	303	139
DZ904	303	144
DZ905	249	226
DZ906	321	82
DZ401	39	13
IC		
IC201	105	224
IC301	152	135
IC401	90	139
IC601	221	227
IC701	17	190
IC801	245	9
IC802	201	19
IC803	211	121
IC804	192	118
IC901	279	210
IC902	265	216
TRANSISTOR		
Q101	68	214
Q201	151	230
Q202	135	229
Q203	151	205
Q204	151	209
Q205	181	210
Q206	177	210
Q207	188	205
Q209	187	191
Q210	91	190
Q401	115	77
Q402	79	129
Q403	55	96
Q701	37	156
Q702	44	151
Q703	33	135
Q704	149	141
Q705	54	167
Q706	54	163
Q801	301	98
Q901	312	230
Q902	291	231
Q903	277	231
Q904	269	231
Q905	322	189
Q906	250	144
Q907	266	144
Q908	261	144
Q909	141	190
QT01	256	139
QT02	322	173
QX01	43	8
OTHER		
T201	130	221
T401	59	127
T444	57	50
TB01	179	73

10-2 PCB-CRT

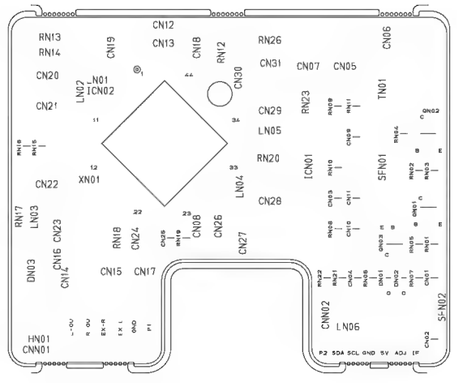


Loc. No.	X	Y
DIODE		
D501	23	66
D502	99	72
D503	57	131
D504	31	130
D505	23	106
D506	36	93
D507	92	142
D508	79	147
D509	53	80
D510	35	82
D511	13	58
D512	101	84
D513	104	98
D514	38	64
D515	104	124
DV01	70	20
DV02	68	7
DV03	75	43
DV04	96	41
DV05	55	36
DV06	58	28
DV07	32	14
DV08	37	6
DVZD1	10	30
DZ501	104	141
DZ502	94	120
DZ503	20	149
DZ504	27	64
DZ505	27	76
DZ506	48	147
DZ507	18	47
IC		
ICS01	24	134
ICS02	21	77
ICS03	104	138
ICS04	104	61
TRANSISTOR		
QV01	8	13
QV02	15	8
QV03	14	24
QV04	44	29
QV05	50	7
QV06	48	40
QV07	55	7
QV08	88	37
QV09	88	19
QV10	24	8
QV11	25	27

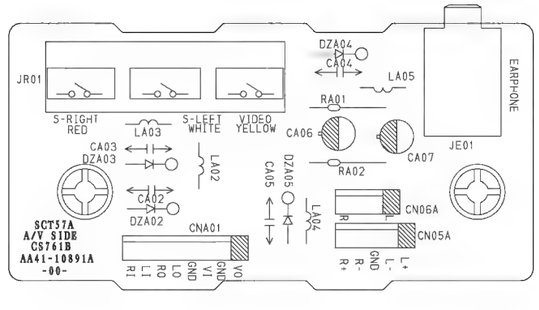
10-3 PCB-TTX



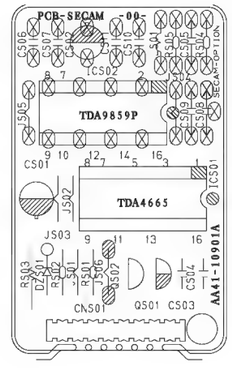
10-4 PCB-NICAM



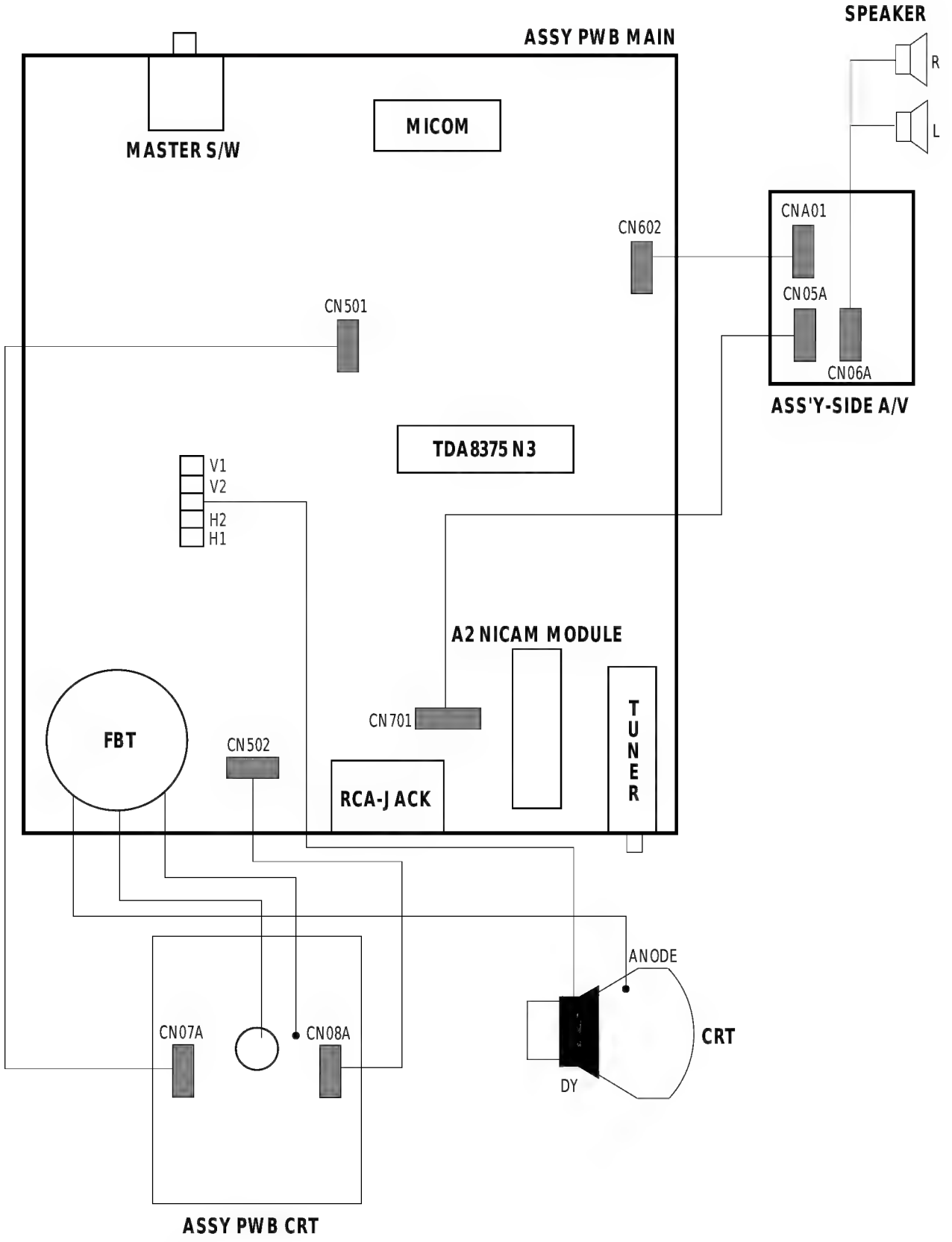
10-5 PWB-A/V



10-6 PCB-SECAM

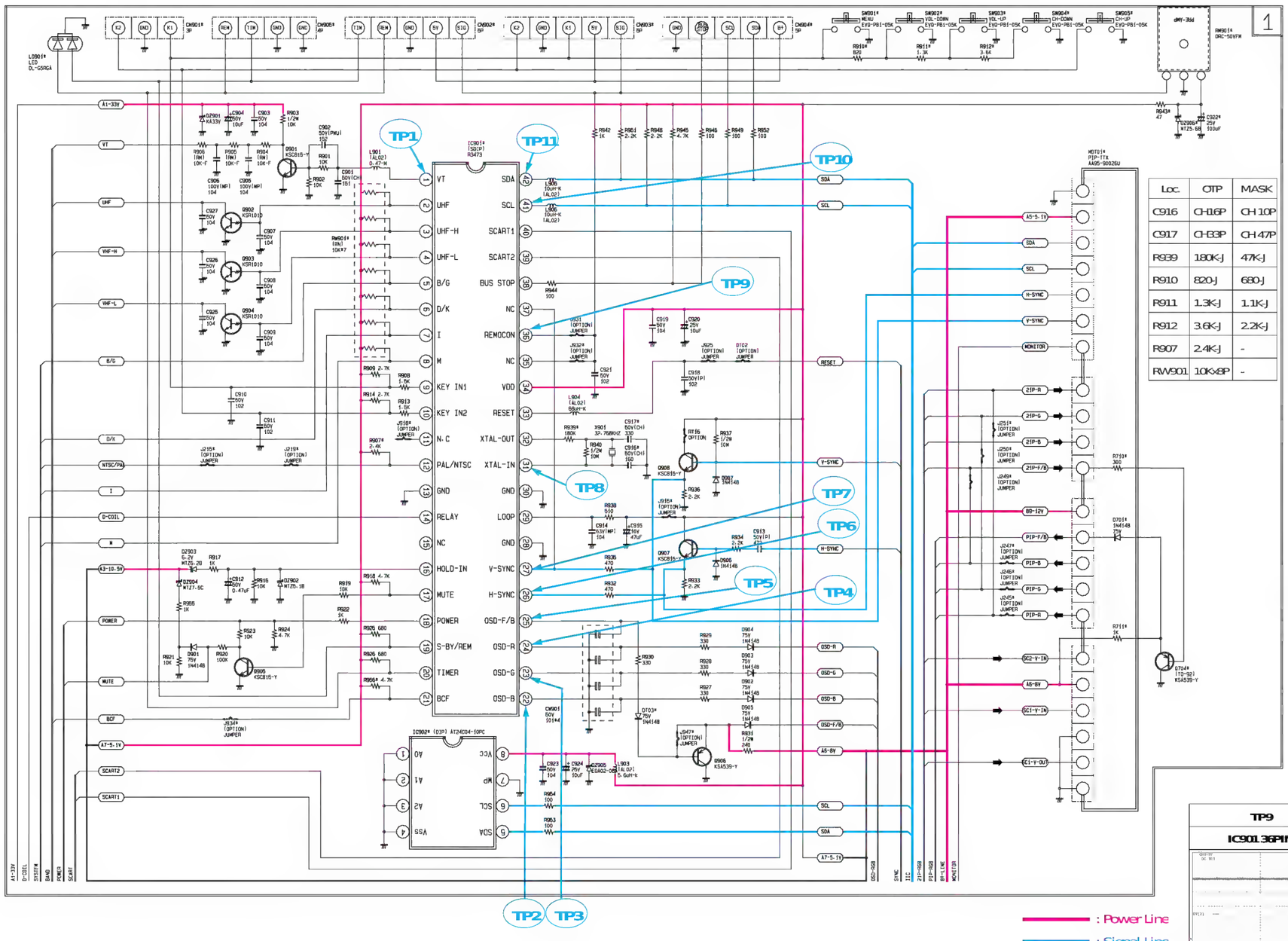


10. Wiring Diagram

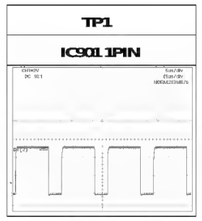


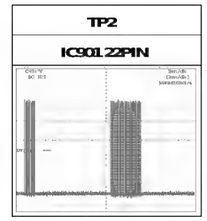
11. Schematic Diagrams

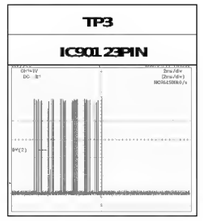
11-1 PWB-MAIN (μ-COM)

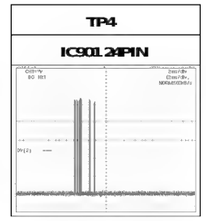


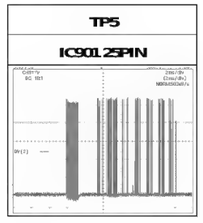
Loc.	OTP	MASK
C916	CH-16P	CH-10P
C917	CH-33P	CH-47P
R939	180K-J	47K-J
R910	820-J	680-J
R911	1.3K-J	1.1K-J
R912	3.6K-J	2.2K-J
R907	2.4K-J	-
RW901	10K-8P	-

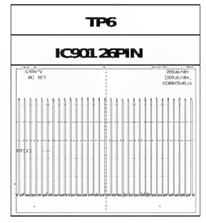


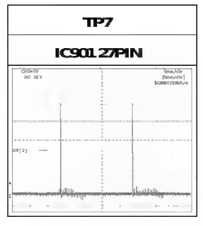


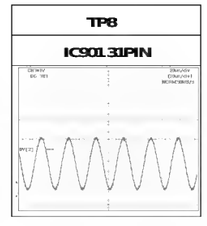


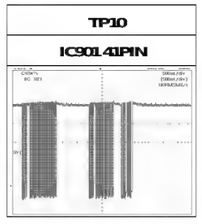


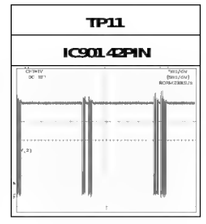




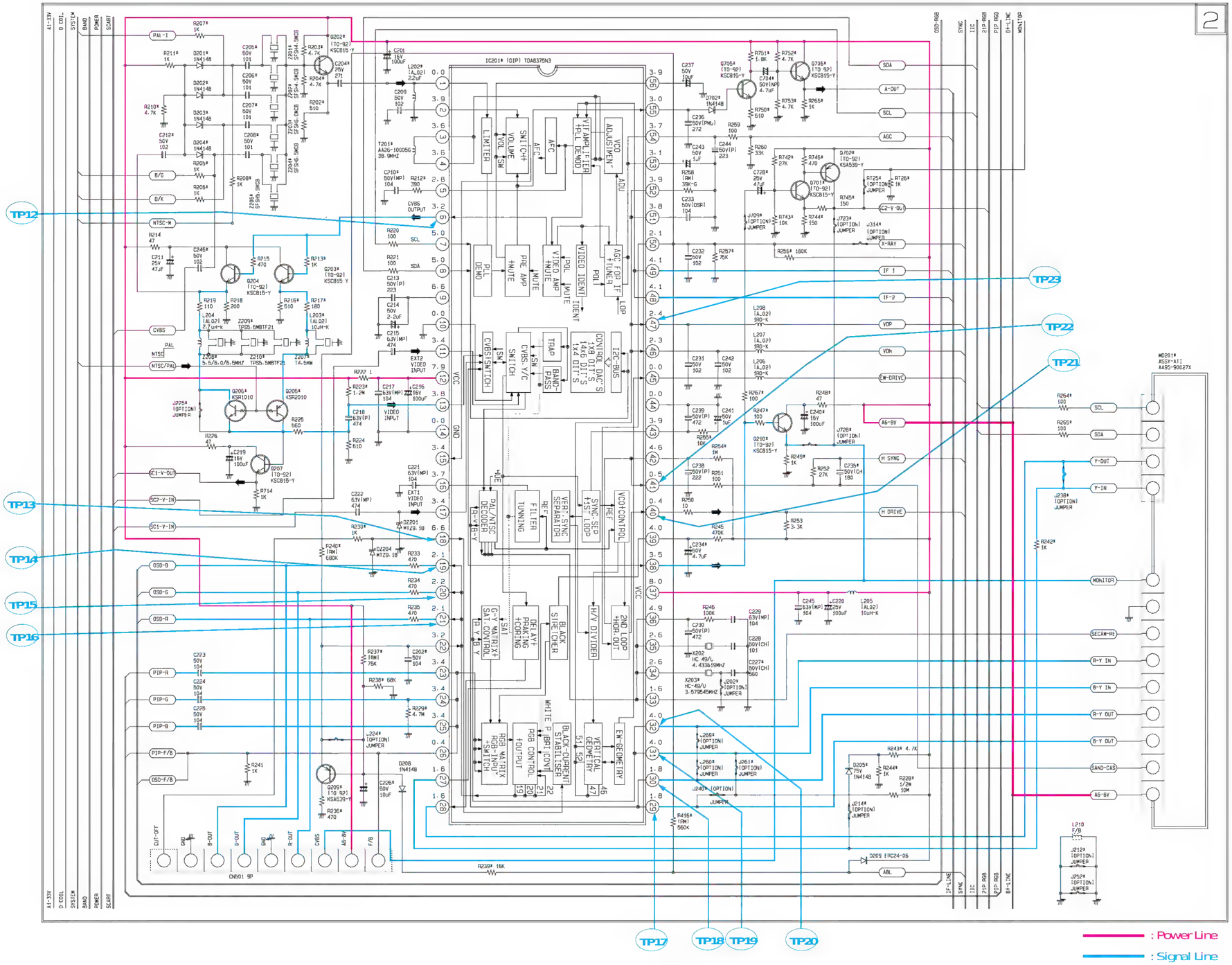




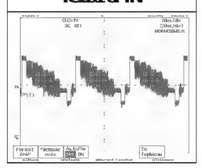




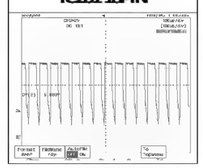
11-2 PWB-MAIN (ONE-CHIP)



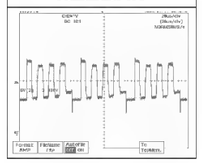
TP12
IC201 6PIN



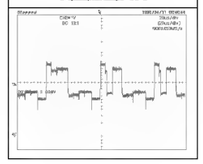
TP13
IC201 18PIN



TP14
IC201 19PIN



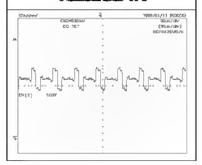
TP15
IC201 20PIN



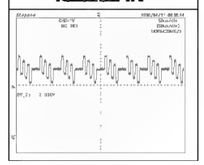
TP16
IC201 21PIN

TP17
IC201 29PIN

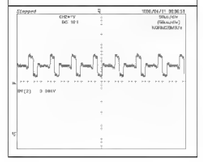
TP18
IC201 30PIN



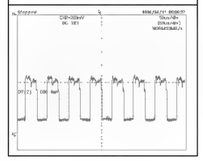
TP19
IC201 31PIN



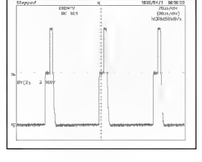
TP20
IC201 32PIN



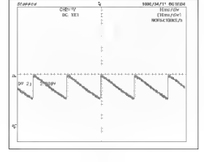
TP21
IC201 40PIN



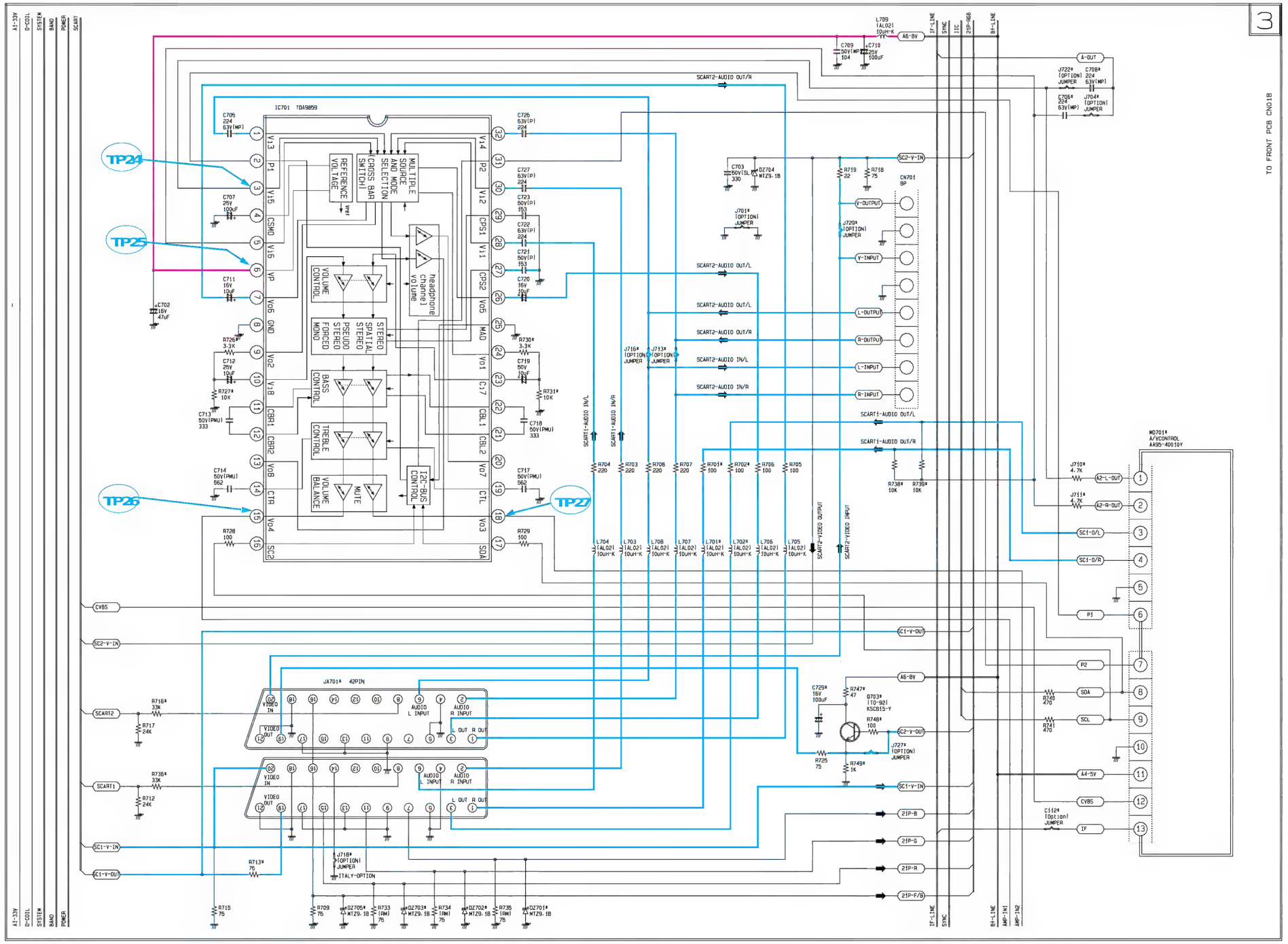
TP22
IC201 41PIN



TP23
IC201 47PIN

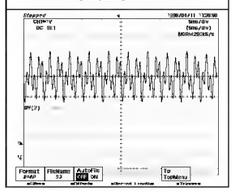


11-3 PWB-MAIN (SOUND)



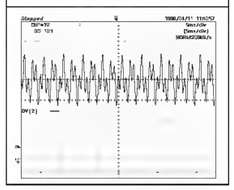
TP24

IC701 3 PIN



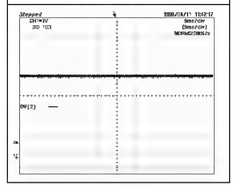
TP25

IC701 5 PIN



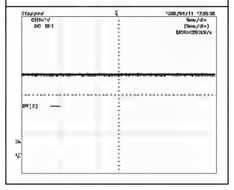
TP26

IC701 15 PIN



TP27

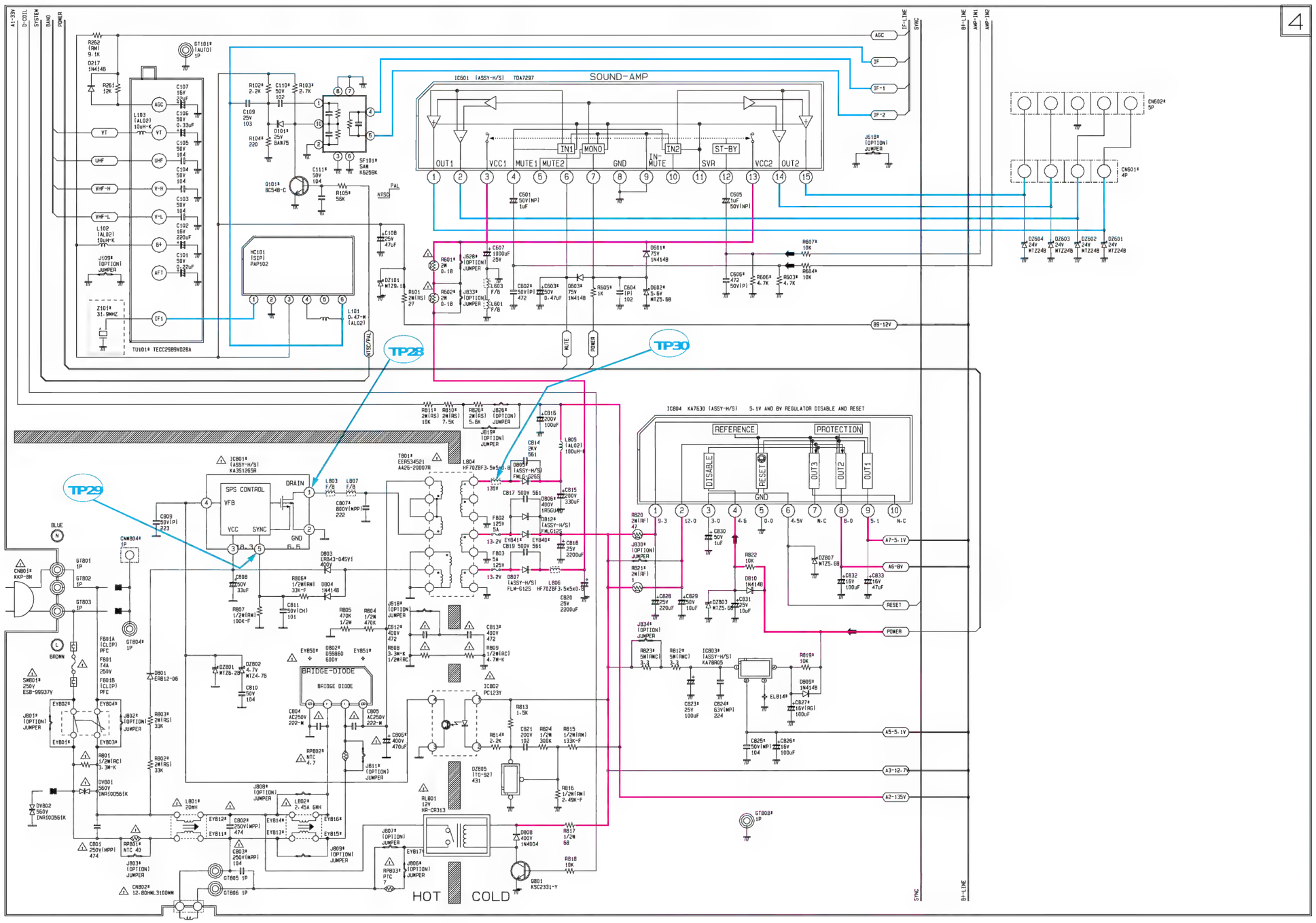
IC701 18 PIN



: Power Line

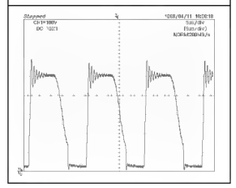
: Signal Line

11-4 PWB-MAIN (POWER)



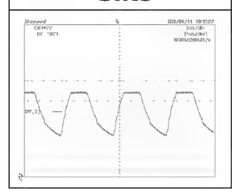
TP28

DRAIN



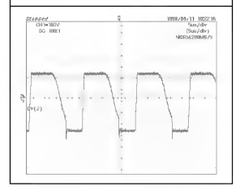
TP29

SYNC



TP30

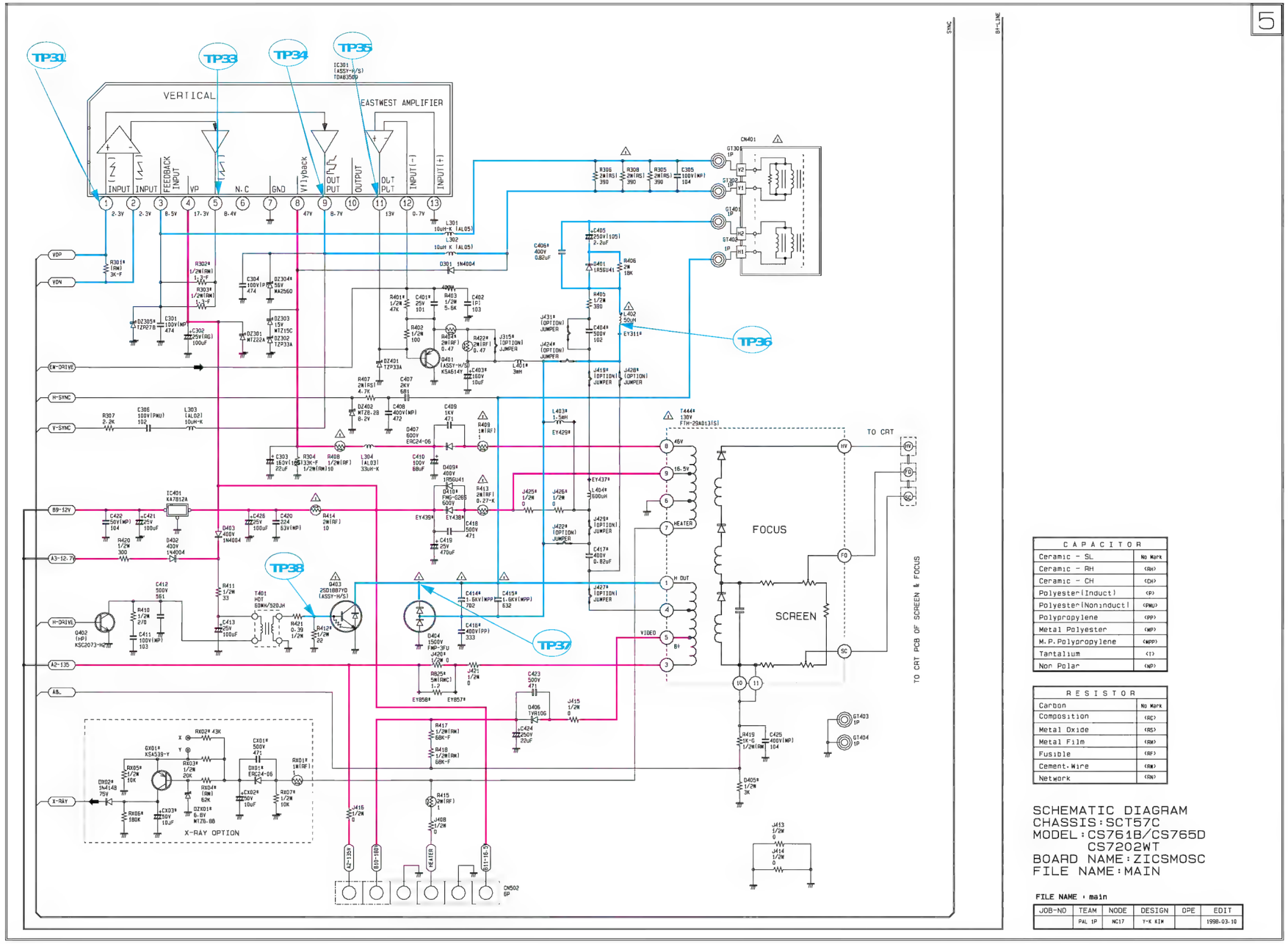
135V



: Power Line

: Signal Line

11-5 PWB-MAIN (Vertical)



CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Non-induct)	(PNU)
Polypropylene	(PP)
Metal Polyester	(MP)
M.P. Polypropylene	(MPP)
Tantalium	(T)
Non Polar	(NP)

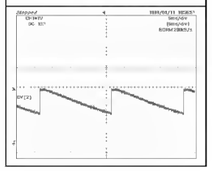
RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RN)
Fusible	(RF)
Cement-Wire	(RW)
Network	(RN)

SCHEMATIC DIAGRAM
CHASSIS:SCT57C
MODEL:CS761B/CS765D
CS7202WT
BOARD NAME:ZICSMOSC
FILE NAME:MAIN

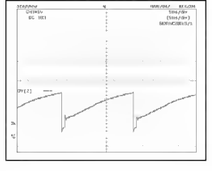
FILE NAME : main

JOB-NO	TEAM	NODE	DESIGN	OPE	EDIT
	PAL 1P	NC17	Y-K KIM		1998-03-10

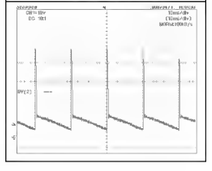
TP31
IC3011PIN



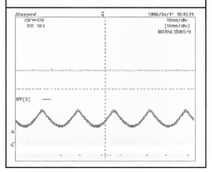
TP33
IC3015PIN



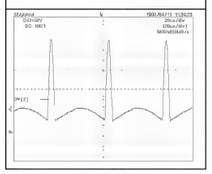
TP34
IC3019PIN



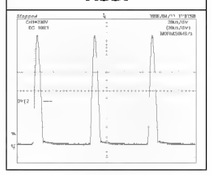
TP35
IC3011PIN



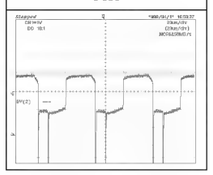
TP36
L402



TP37
HOUT

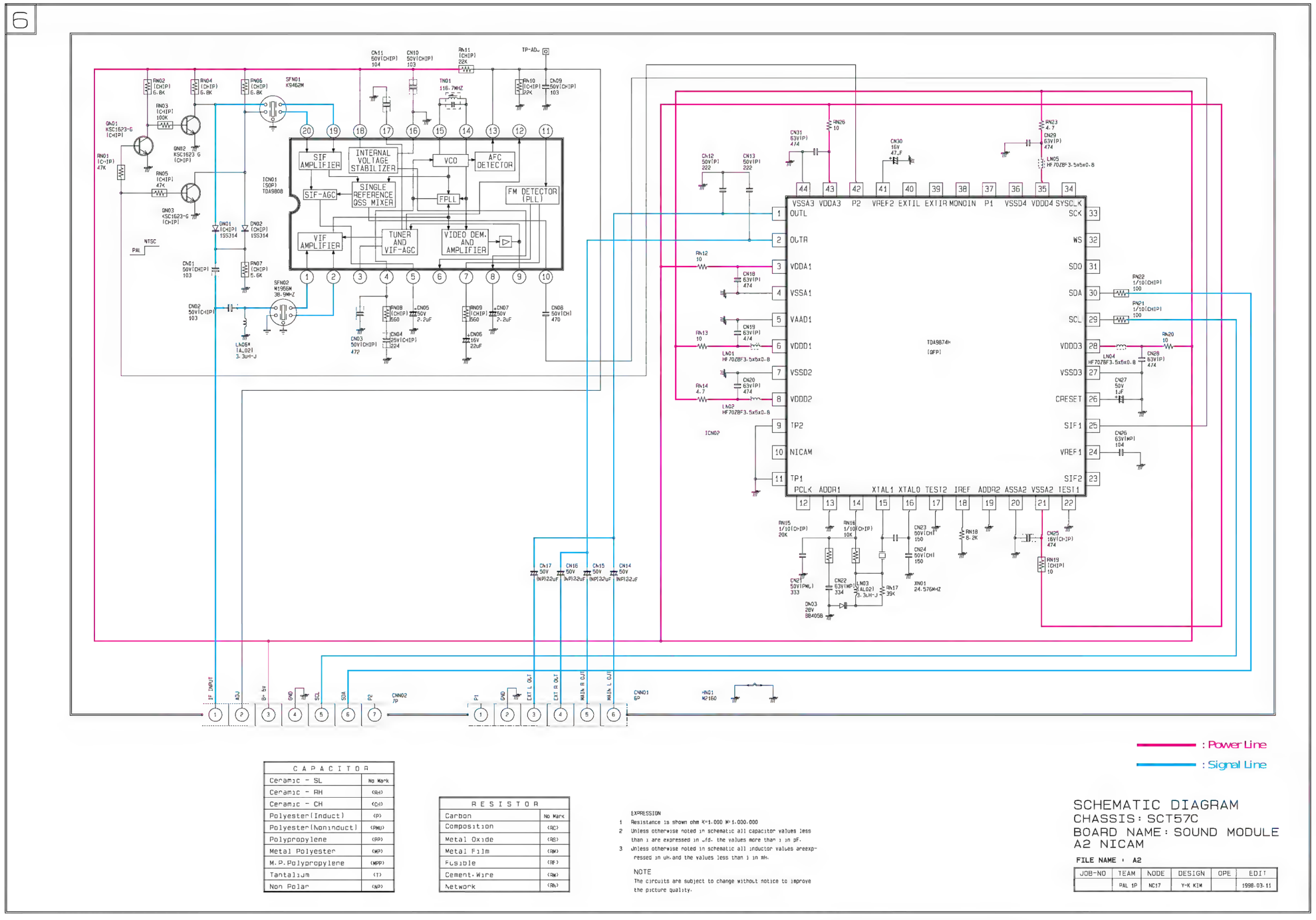


TP38
HTr



: Power Line
: Signal Line

11-6 SOUND-MODULE (A2+NICAM)



CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M.P.Polypropylene	(MPP)
Tantalum	(T)
Non Polar	(NP)

RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement-Wire	(RW)
Network	(RN)

EXPRESSION
1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH-and the values less than 1 in mH.

NOTE
The circuits are subject to change without notice to improve the picture quality.

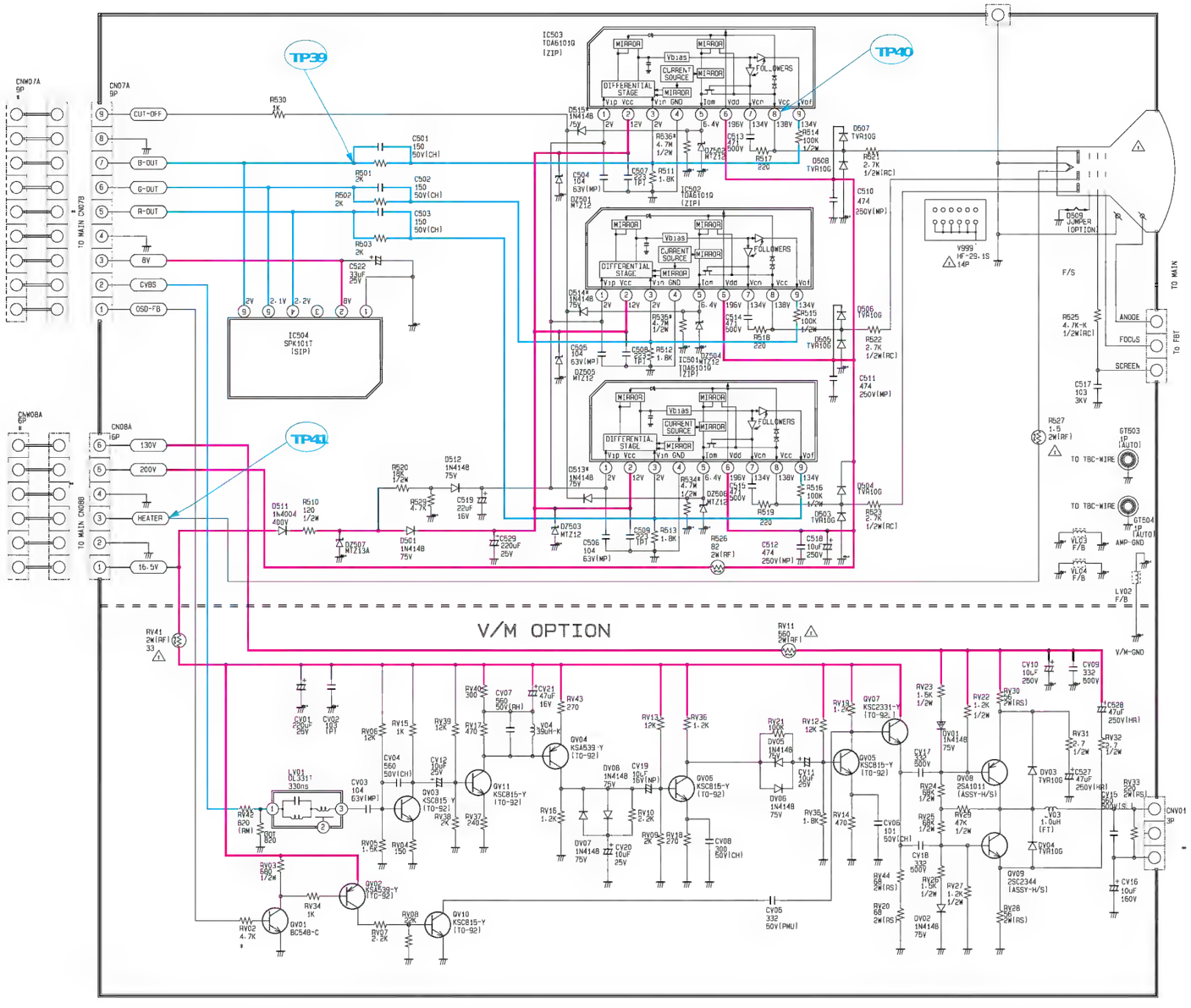
SCHEMATIC DIAGRAM
CHASSIS: SCT57C
BOARD NAME: SOUND MODULE A2 NICAM

FILE NAME : A2

JOB-NO	TEAM	NODE	DESIGN	OPE	EDIT
	PAL 1P	NC17	Y-K KIM		1998.03.11

11-7 PWB-CRT

SCHEMATIC DIAGRAM
CHASSIS:SCT57C
BOARD NAME:PWB-CRT, V/M
MODEL:CS761B/CS765D/CS301B/CS305D



CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Noninduct)	(PMJ)
Polypropylene	(PP)
Metal Polyester	(MP)
M.P.Polypropylene	(MPP)
Tantalium	(T)
Non Polar	(NP)

RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RW)
Fusible	(RF)
Cement Wire	(RW)
Network	(RN)

EXPRESSION
1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.

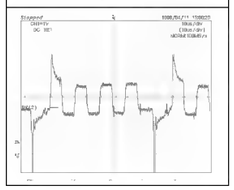
NOTE
The circuits are subject to change without notice to improve the picture quality.

FILE NAME :SCT57C/CS761/SUB/CRT

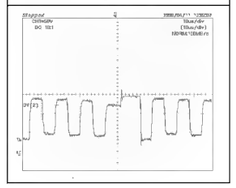
JOB-NO	TEAM	NODE	DESIGN	OPE	EDIT

: Power Line
: Signal Line

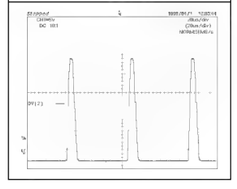
TP39
CRT1



TP40
CRT2

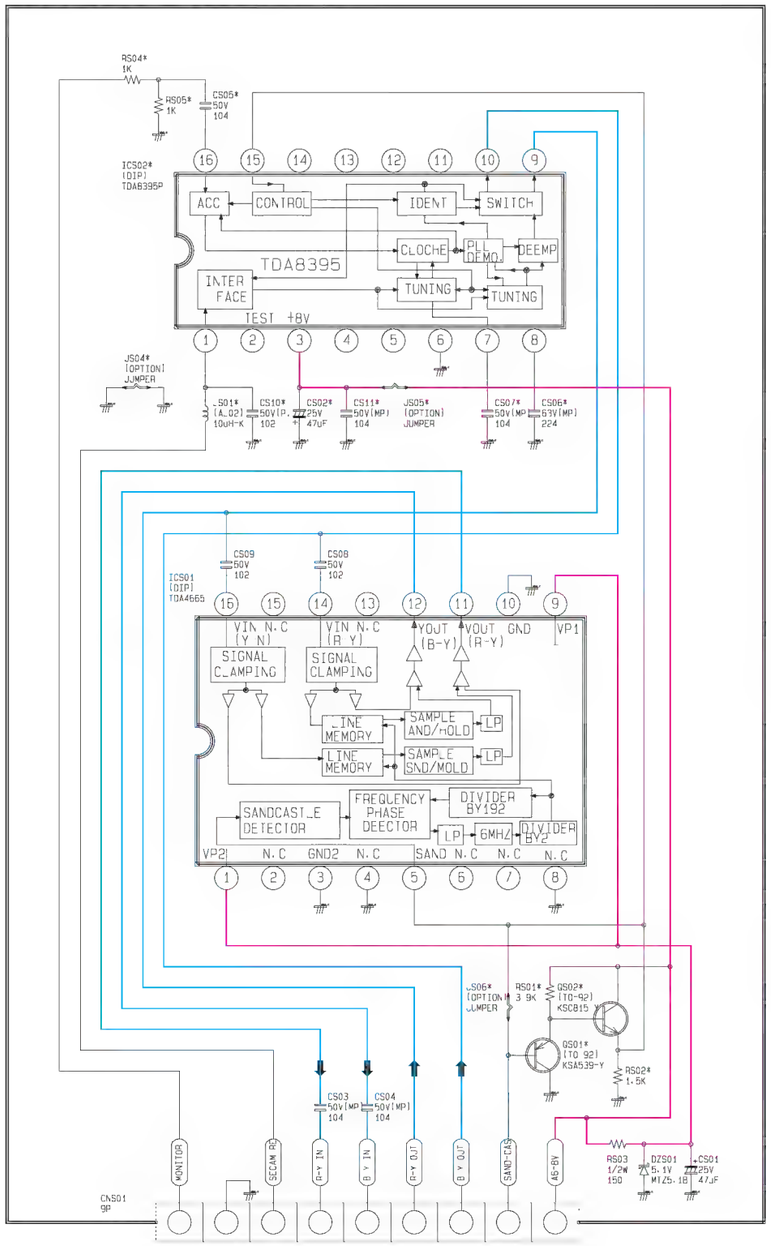


TP41
CRT3



11-8 SECAM-MODULE

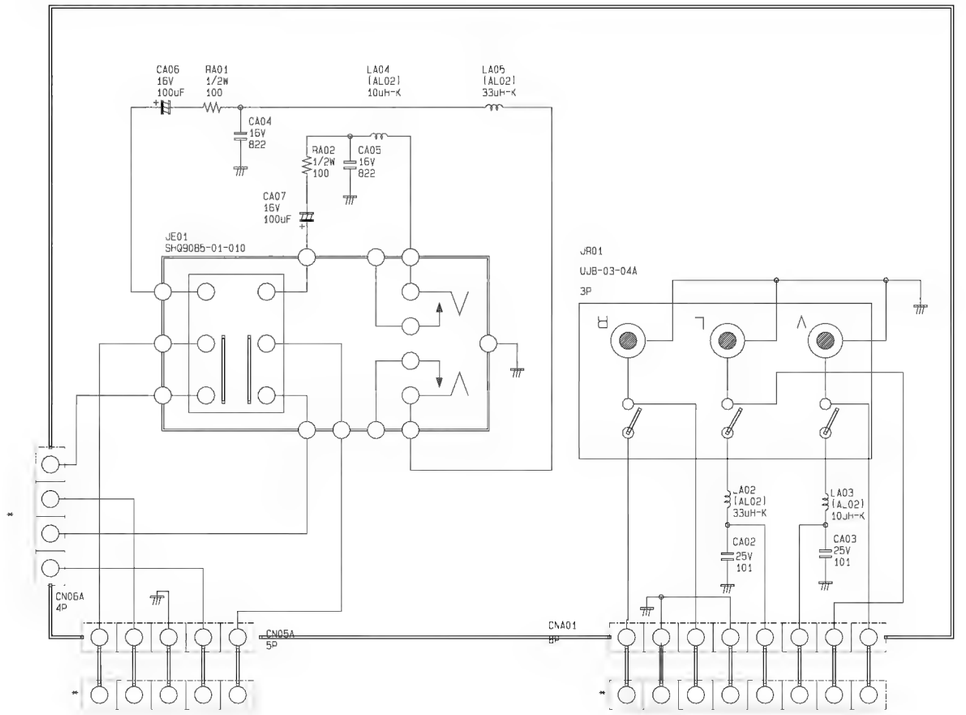
SCHEMATIC DIAGRAM
CHASSIS : SCT57C
MODEL :761B, 765D, 7202
BOARD NAME : SECAM



: Power Line
: Signal Line

11-9 PWB A/V

ASS' Y-SIDE A/V



RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement. Wire	(RW)
Network	(RN)

CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M.P.Polypropylene	(MPP)
Tantalium	(T)
Non Polar	(NP)

EXPRESSION
1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.

NOTE
The circuits are subject to change without notice to improve the picture quality.

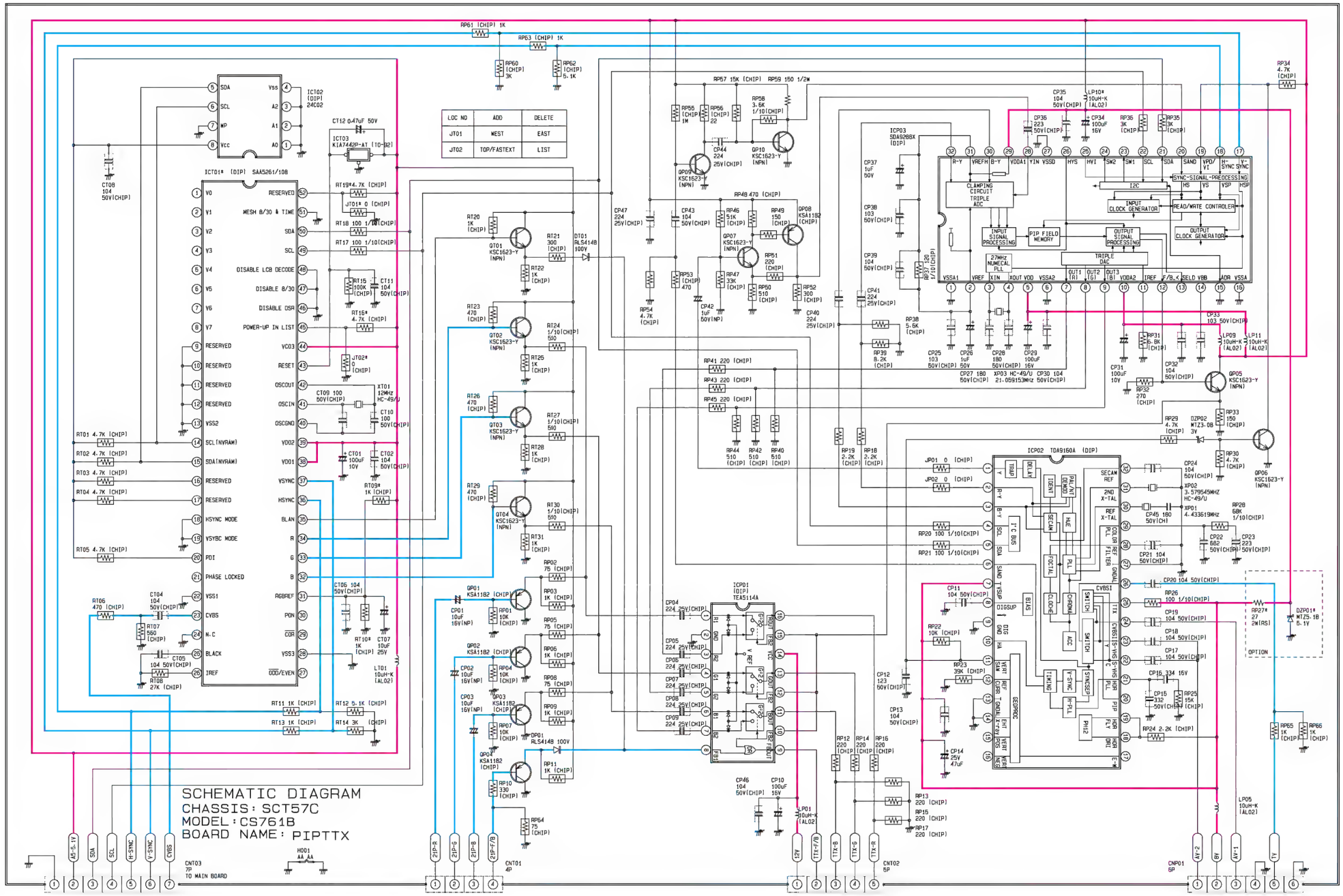
WARNING : THIS RECEIVER CONTAINS SAFETY CRITICAL COMPONENTS. ALL PARTS SHOWN IN THE SHADED AREAS OF THE SCHEMATIC ARE SAFETY CRITICAL FOR CONTINUED SAFETY.REPLACE SAFETY CRITICAL COMPONENTS. ONLY WITH MANUFACTURER'S RECOMMENDED PARTS. REFER TO PARTS LIST FOR EXACT REPLACEMENTS .

SCHEMATIC DIAGRAM
CHASSIS : SCT57C
MODEL : CS761B/CS765D/CS305D/CS301B
BOARD NAME : MAIN
PCB-CRT/SUB-PCB

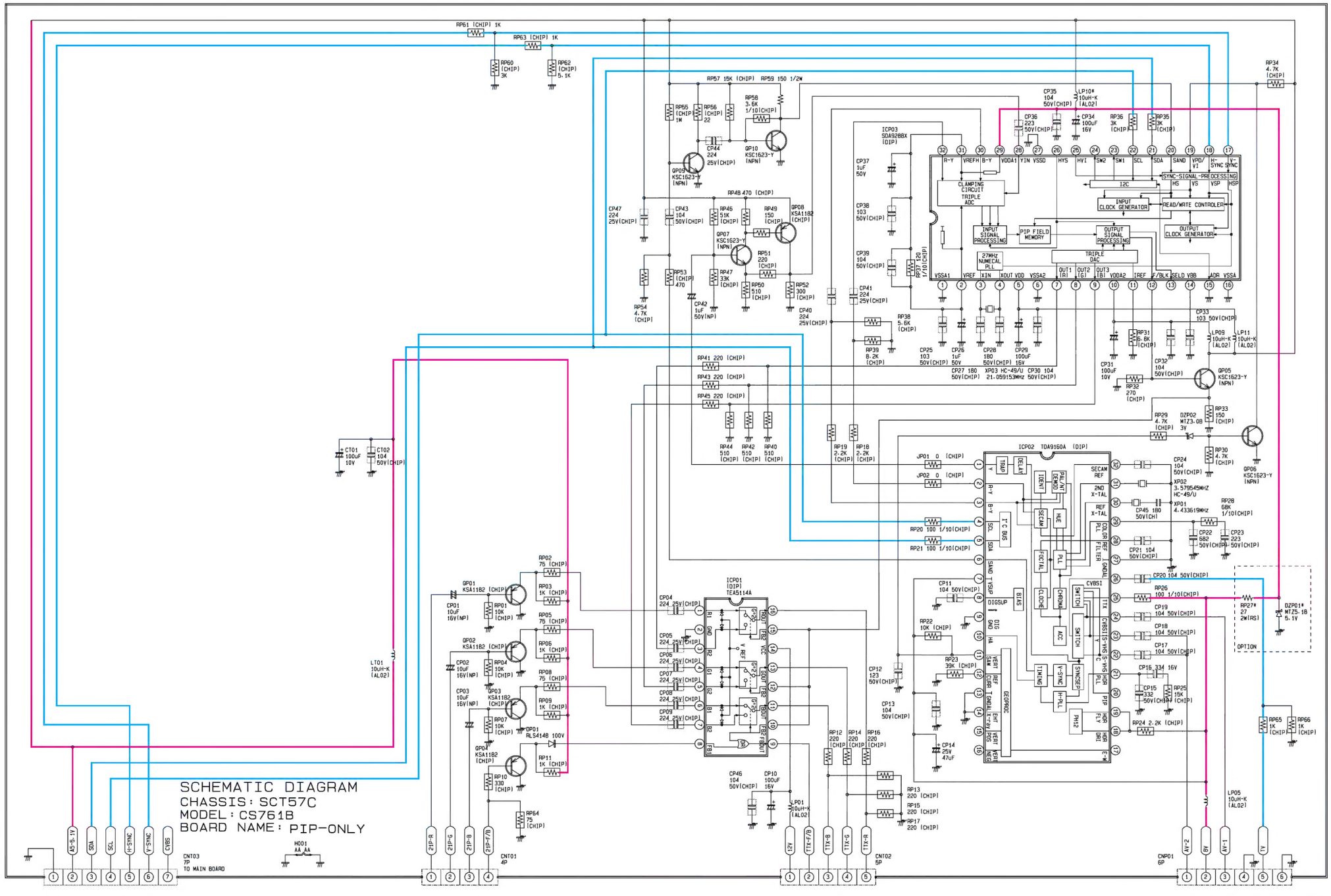
FILE NAME : main

JOB-NO	TEAM	NODE	DESIGN	OPE	EDIT
	PAL 1P	NC17	Y-K KIM		1998.02.10

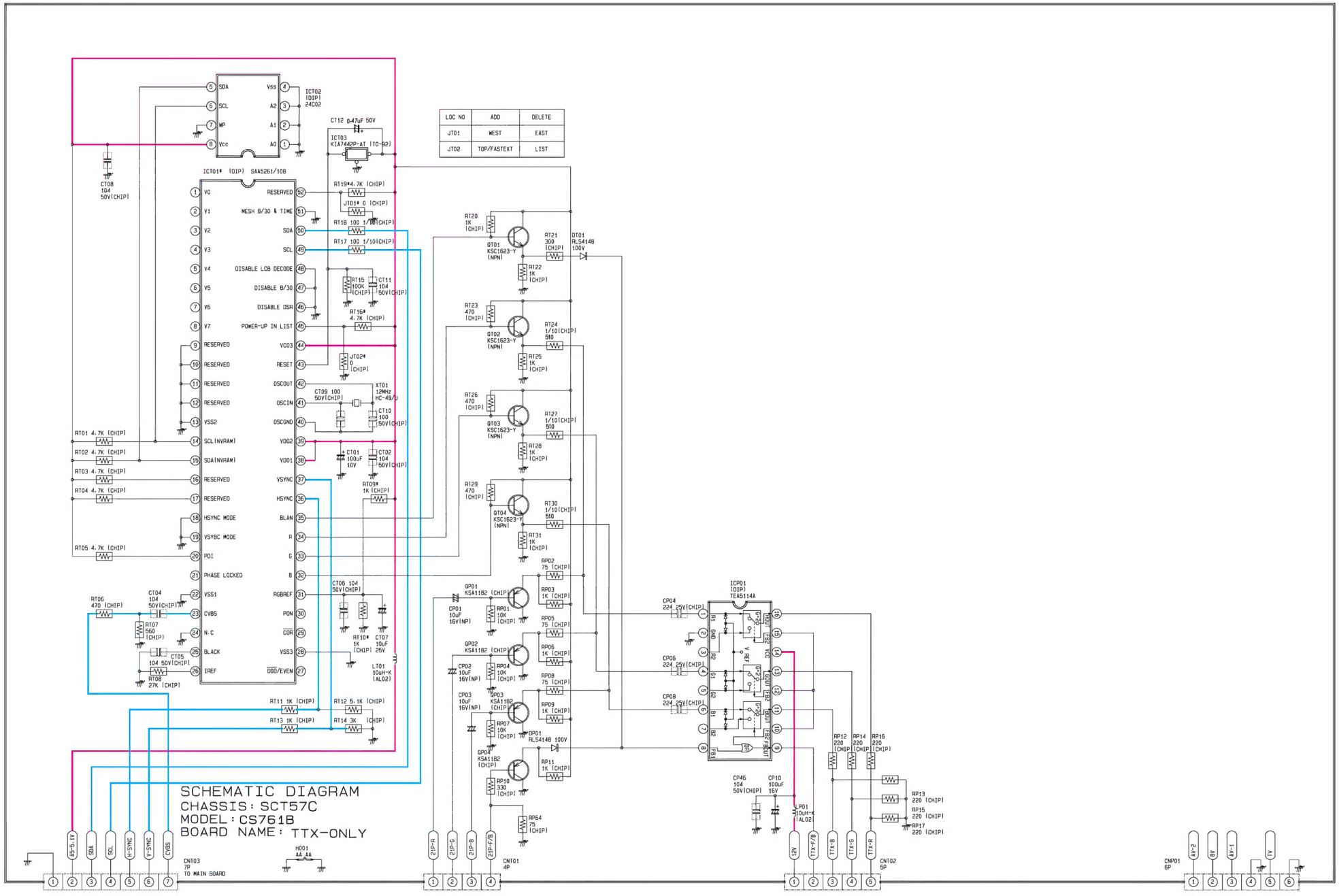
11-10 PIPTTX


SCHEMATIC DIAGRAM
CHASSIS : SCT57C
MODEL : CS761B
BOARD NAME : PIPTTX
: Power Line
: Signal Line

11-11 PIP-ONLY



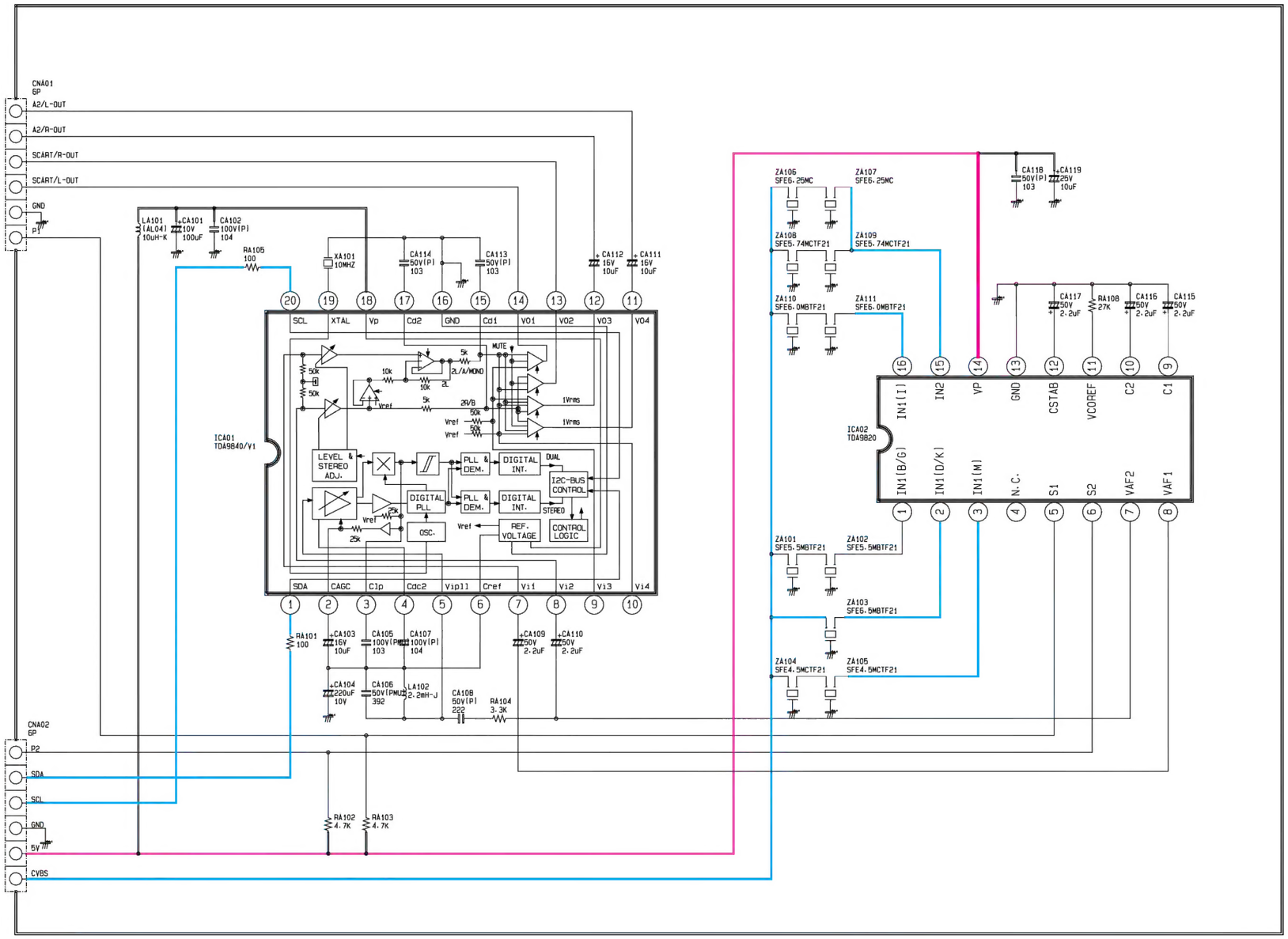
11-12 TTX-ONLY



: Power Line

: Signal Line

11-13 A2 STEREO



CAPACITOR	
Ceramic - SL	No Mark
Ceramic - RH	(RH)
Ceramic - CH	(CH)
Polyester(Induct)	(P)
Polyester(Noninduct)	(PMU)
Polypropylene	(PP)
Metal Polyester	(MP)
M.P.Polypropylene	(MPP)
Tantalium	(T)
Non Polar	(NP)

RESISTOR	
Carbon	No Mark
Composition	(RC)
Metal Oxide	(RS)
Metal Film	(RM)
Fusible	(RF)
Cement Wire	(RW)
Network	(RN)

EXPRESSION

1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.

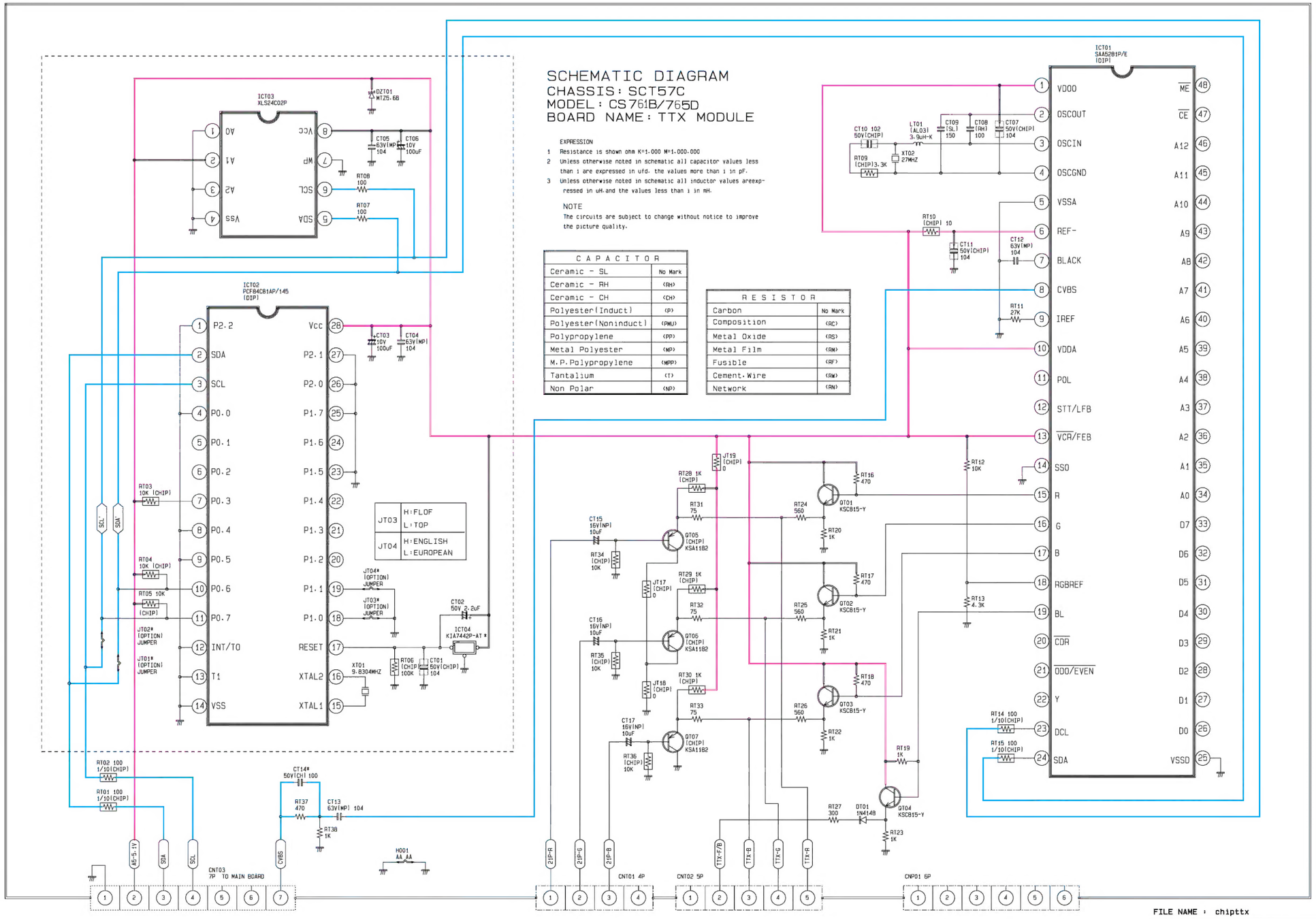
NOTE

The circuits are subject to change without notice to improve the picture quality.

SCHEMATIC DIAGRAM
CHASSIS : SCT57C
MODEL : CS761B
BOARD NAME : SOUND MODULE
A2 STEREO

: Power Line
: Signal Line

11-14 TTX MODULE


SCHEMATIC DIAGRAM
CHASSIS : SCT57C
MODEL : CS761B/765D
BOARD NAME : TTX MODULE
EXPRESSION
1 Resistance is shown ohm K=1.000 M=1.000.000
2 Unless otherwise noted in schematic all capacitor values less than 1 are expressed in ufd. the values more than 1 in pF.
3 Unless otherwise noted in schematic all inductor values areexpressed in uH.and the values less than 1 in mH.
NOTE
The circuits are subject to change without notice to improve the picture quality.
CAPACITOR
Ceramic - SL (No Mark)
Ceramic - RH (RH)
Ceramic - CH (CH)
Polyester(Induct) (P)
Polyester(Noninduct) (PMU)
Polypropylene (PP)
Metal Polyester (MP)
M.P.Polypropylene (MPP)
Tantalium (T)
Non Polar (NP)
RESISTOR
Carbon (No Mark)
Composition (RC)
Metal Oxide (RS)
Metal Film (RM)
Fusible (RF)
Cement.Wire (RW)
Network (RN)
ICT01 SAA5281P/E (DIP)
ICT02 PCF84C81AP/145 (DIP)
ICT03 XLS24C02P
ICT04 KIA7442P-AT
JT03 H:FLOF L:TOP
JT04 H:ENGLISH L:EUROPEAN
: Power Line
: Signal Line
FILE NAME : chipttx
JOB-NO | TEAM | NODE | DESIGN | OPE | EDIT
PAL | NC17 | Y-K KIM | 1997-09-11